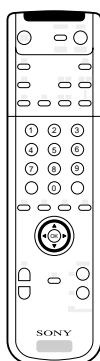


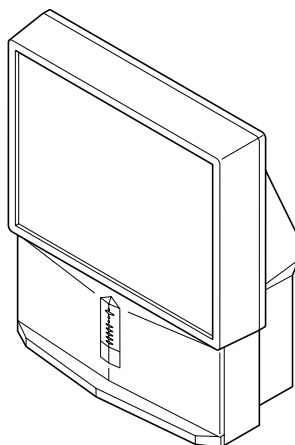
# SERVICE MANUAL

## RE-3 CHASSIS

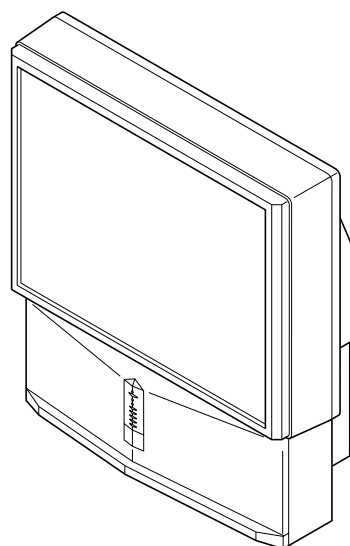
<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
KP-48PS1	RM-892	AEP	SSCP38A-A
KP-53PS1	RM-892	AEP	SSCP38B-A
KP-61PS1	RM-892	AEP	SSCP38C-A
KP-48PS1K	RM-892	OIRT	SSCP39A-A
KP-53PS1K	RM-892	OIRT	SSCP39B-A
KP-61PS1K	RM-892	OIRT	SSCP39C-A



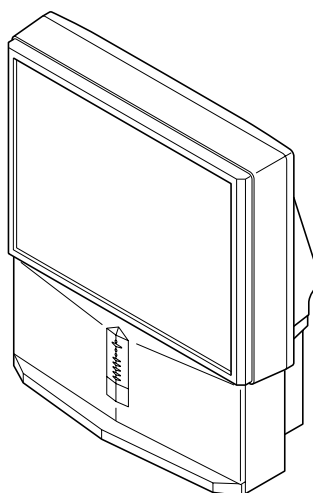
RM-892



KP-48PS1/48PS1K



KP-61PS1/61PS1K



KP-53PS1/53PS1K

\* Please file according to model size. ... ☐

48 53 61

PROJECTION TV  
**SONY**®

## SPECIFICATIONS

### TV system

B/G/H, D/K, I, L

### Colour system

PAL, SECAM

NTSC 3.58, 4.43 (only Video In)

### Channel coverage

VHF: E2-E12

UHF: E21-E69

CATV: S1-S20

HYPER: S21-S41

D/K: R1-R12, R21-R69

I: UHF B21-B69

L: F2-F10, B-Q, F21-F69

### Projected picture size

KP-61PS1/61PS1K:

61 inches (approx. 155 cm measured diagonally)










KP-53PS1/53PS1K:

53 inches (approx. 135 cm measured diagonally)

KP-48PS1/48PS1K:





48 inches (approx. 122 cm measured diagonally)

### Rear Terminals

-   Centre speaker input terminals (2 terminals)
-  (L,R) audio outputs (phono jacks)
-  1/  21-pin Euro connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output
-  2/  2 21-pin Euro connector (CENELEC (SMARTLINK) standard) including audio/video input, S video input, selectable audio/video output
-  3/  3 21-pin Euro connector (CENELEC standard) including audio/video input, S video input, audio/video output (monitor out)

### Front Terminals

AV4 inputs:

-  S video input - 4 pin DIN
-  video input - phono jack
-  audio inputs - phono jacks
-  Headphones jack - minijack stereo

### Sound output

2 x 30 W (music power)

2 x 15 W (RMS)

### Centre SP input

30 W (RMS) (using as the centre speaker)

### Power consumption

225 W

### Standby Power consumption

< 0.7 W

### Dimensions (w x h x d)

KP-61PS1/61PS1K:

Approx. 1372 x 1547 x 662 mm

KP-53PS1/53PS1K:

Approx. 1218 x 1423 x 623 mm

KP-48PS1/48PS1K:

Approx. 1106 x 1340 x 562 mm

### Weight

KP-61PS1/61PS1K: Approx. 90 kg

KP-53PS1/53PS1K: Approx. 76 kg

KP-48PS1/48PS1K: Approx. 69 kg

### Accessories supplied

1 Remote Control (RM-892)

2 Batteries (IEC designated)

### Other features

100 Hz picture

Digital Comb filter (High resolution)

TELETEXT, Fastext, TOPtext

NexTView

NICAM

Sleep Timer

Smartlink

Digital Noise detection

Graphic Equaliser


Personal ID

Design and specifications are subject to change without notice.

### CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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## SECTION 1

### SELF DIAGNOSIS FUNCTION

#### 1-1. RE-3 SELF DIAGNOSTIC SOFTWARE

The identification of errors within the RE-3 chassis is triggered in one of two ways : - 1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1., non fatal errors are reported using this method.

Diagnostic Item Description	No. of times Standby LED Flashes	Probable cause Location	Detected Symptoms
Power does not turn on	Does not light	Power cord is not plugged in Fuse is Burned out	Power does not come on No power is supplied to the TV AC power supply is faulty
+B Over current (OCP)	2 times	H. OUT (Q5104) is shorted (D Board) Linearity FET (Q5105) is shorted (D Board) IC6004 Power IC is shorted (G Board)	Power does not come on Load on power line has shorted
Vertical Deflection stopped	4 times	+15 V is not supplied R5340 open (D Board) -15 V is not supplied R5341 open (D Board) IC5302 is shorted (D Board)	Vertical deflection pulse has stopped Power line has shorted

ERROR	LED ERROR COUNT
No error	00
Not allowed (may be confused with Sircs response flash)	01
Over Current Protection	02
Over Voltage Protection	03
Vertical Protection	04
Not used	05
H-Protection	06
Speaker Protection	07
General IIC Line 0 error	08
MEGATEXT (IC9502)	09
NVM (IC9108)	10
Main colour decoder (IC8301)	11
Backend (IC4301)	14
Multi sound processor (IC4702)	15
External RAM (IC9107)	17

#### Flash Timing Example : e.g. error number 3



## 1-2. ERROR DETECTION MONITOR

Device acknowledge is used to check IIC errors. Device acknowledge is checked by sending an IIC start sequence during CRT power on. Each device is checked three times, if there is no acknowledge after every attempt, it will be regarded as an error.

There are three step to check errors.

1. IIC line 0  
If all devices except the NVM have errors, IIC line 0 error is displayed.
2. Board check  
If all devices mounted on one board have errors, board error is displayed.
3. Each device check  
if IIC line error and board error are not detected then the device with an error is displayed.

The detected errors can be displayed as follows:

1. Error Monitor Menu
2. Error Reader

### 1-2-1. Error Monitor Menu

The error monitor menu is displayed by selecting TT33. The following menu will be displayed:

Error Monitor			
1	Ignore Errors	OFF	ON
	Operating Time :	000021 h 40 min	
Stored Errors :			
	1. A-Board		
	2. B3-B CXA2100 MID		
	3. J-B CXA2123 Main Col Dec		
	4. Error Code Not Valid		
	5. Error Code Not Valid		
Current Error :			
	Start Error Sequence		

## 1-2-2. Error Reader Display

The error reader display is connected to the service connector to read actual error codes. The part number for the error reader display is S-188-900-10.

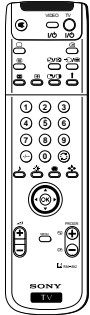
Once an error has been detected it will then be displayed on the two digit error reader. The errors displayed refer to the following table:

Send Data to Error Reader				
Error Code	Data High	Data Low	Error Type	Function
00 00h	–	f0h	no device	
<b>Gen. IIC Error</b>				
00 01h	f0h	01h	IIC 0 line	
00 02h	f0h	02h	IIC 1 line	not used
<b>Board Error</b>				
01 00h	f1h	00h	A Board	
04 00h	f4h	00h	B3 Board	
06 00h	f6h	00h	E Board	
07 00h	f7h	00h	J/S Board	
08 00h	f8h	00h	M Board	
<b>Device Error</b>				
A Board				
01 01h	f1h	01h	CXA1875	Port Expander
01 02h	f1h	02h	TU1301	Main Tuner
01 03h	f1h	03h	TU1302	Sub Tuner
B3 Board				
04 01h	f4h	01h	CXD9509	MID
E Board				
06 01h	f6h	01h	CXA2100	Backend
J Board				
04 04h	f4h	04h	TDA9178	Picture Booster
07 03h	f7h	03h	CXA2123	Sub Colour
07 04h	f7h	04h	CXA2123	Main Colour
07 0Ah	f7h	0Ah	CXA2149	AV SW
S Board				
07 05h	f7h	05h	CXA1875	Sub Sound
07 08h	f7h	08h	MSP3410D	Sound Proc
M Board				
08 01h	f8h	01h	ST24C32	NVM

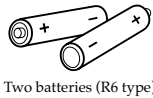
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

## Overview

### Checking the Accessories Supplied



One Remote Control (RM-892)



Two batteries (R6 type)

### Overview of Projection TV Buttons



On/Off Switch

Standby indicator

Volume control buttons

Selecting input source

Programme up or down buttons (selects TV channels)

(left side connectors)

S Video Input jack


Video Input jack

Audio Input jacks

(right side connectors)

Auto Convergence button

Headphone jack

Press on the mark  on the front of the projection TV to reveal the front connectors.

## SECTION 2 GENERAL

## Overview

### Overview of Remote Control Buttons

#### Resetting to factory set levels

Press not only to return picture and sound settings to factory-set levels, but also to re-install the projection TV as the first time it was switched on.  
After the "Language/Country" menu appeared on the screen, proceed in the same way as described in the section "Switching on the Projection TV and automatically Tuning" of this instruction manual.

#### VCR on/off

Press to switch your VCR on or off.

#### Muting the Sound

Press to mute TV sound.  
Press again to restore the sound.

#### Selecting TV mode

Press to switch off Teletext or video input.

#### PAP (Picture And Picture)

For more details, please refer to the section "Using PAP (Picture And Picture)".

#### Selecting Teletext

Press to switch on Teletext.

#### Displaying EPG

Press to display the Electronic Programme Guide (EPG). Press again to switch off EPG.

#### Freezing the picture

Press to freeze the picture. Press again to return to the normal picture.

#### Selecting channels

Press to select channels.

For double-digit programme numbers, e.g. 23, press - / - first, then the buttons 2 and 3. If you enter an incorrect first digit, this should be corrected by entering another digit (0-9) and then selecting - / - button again to enter the programme number of your choice.

#### Selecting Sound mode

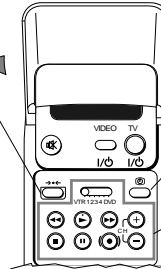
Press repeatedly to change the sound mode.

#### Selecting Picture mode

Press repeatedly to change the picture mode.

#### Adjusting TV Volume

Press to adjust the volume of the TV.




#### Displaying the time


Press to switch the time on or off (available only when teletext is broadcast).

#### VCR operation

For more details, please refer to the section "Remote Control of other Sony Equipment"

#### To Temporarily Switch Off projection TV

Press to temporarily switch off TV (the standby indicator  on projection TV lights up). Press again to switch on TV from standby mode. To save energy we recommend switching off completely when TV is not in use.

 After 15-30 minutes without a signal and without any button being pressed, the projection TV switches automatically into standby mode.

#### Displaying On Screen Information

Press to display all on-screen indications. Press again to cancel.

#### Selecting Input source

Press repeatedly until the desired input symbol of the source appears on the screen.

#### Back to the channel last watched

Press to watch the last channel selected (watched for at least 5 seconds).

#### Selecting Screen format

Press repeatedly to change the format of the screen 4:3 for a conventional 4:3 picture or 16:9 for a imitation of wide screen effect. 16:9 picture is available only if you have selected Digital Mode DRC 100 (PAL mode) in the Picture Adjustment menu.

#### Displaying Multi PIP (Picture In Picture)

Press to display Multi PIP mode. Press again to cancel.

#### Joystick for menu selection


- When MENU is switched on:
  - ▲ Scroll Up
  - ▼ Scroll Down
  - ◀ Previous menu or selection
  - ▶ Next menu or selection
  - OK Confirms your selection
- When MENU is switched off:
  - ◀ Return to the last menu screen.
  - OK Shows a channel overview.

#### Selecting channels

Press to select the next or previous channel.

#### Displaying the menu system

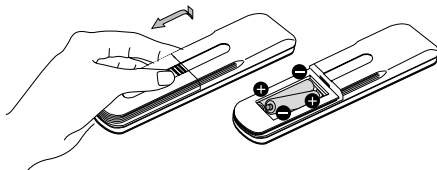
Press to display the menu on the screen. Press again to remove the menu display from the screen.

 Besides TV functions, all coloured buttons as well as green symbols are also used for Teletext operation. For more details, please refer to the "Teletext" section of this instruction manual.

## Installation

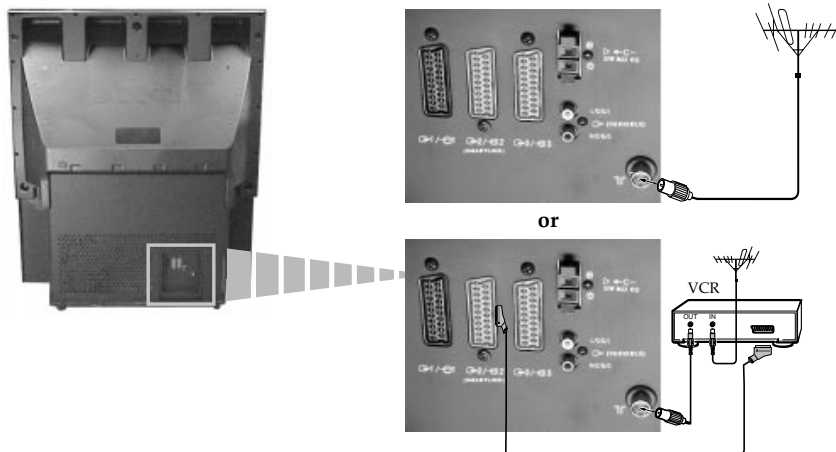
### Inserting Batteries into the Remote Control

- ⚠** Make sure you insert the batteries using the correct polarities.  
Always remember to dispose of used batteries in an environmental friendly way.



### Connecting the Aerial and VCR

- ①** Connecting cables are not supplied.



or

- ①** The Scart lead is optional.  
If you use this optional connection it can improve picture and sound quality when using a VCR.

- ⚠** If you do not use a SCART lead, after automatically tuning the projection TV refer to the "Manually Tuning the TV" section of this instruction manual, to tune in the projection TV to the output of your VCR. Also refer to your VCR instruction manual to find out how to find the output channel of your VCR.

## First Time Operation

### Switching on the Projection TV and Automatically Tuning

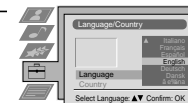
- ①** The first time you switch on your TV, a sequence of menu screen appear on the TV enabling you to 1) choose the language of the menu screen, 2) choose the country in which you wish to operate the projection TV, 3) search and stores all available channels (TV Broadcast) and 4) change the order in which the channels (TV Broadcast) appear on the screen. However, if you need to change the language menu, change the country, change or repeat the tuning (e.g. when you move house) or rearrange again the order of the channels afterwards, you can do that by selecting the appropriate menu in the **⚙** (Set Up).



- 1** Connect the Projection TV plug to the mains socket (220-240V AC, 50 Hz). Press the **⏻ on/off** button on your projection TV set to switch on. The first time you press this button the **Language/Country** menu displays automatically on the screen.



- 2** Push the joystick on the remote control to **▼** or **▲** to select the language, then press **OK** to confirm your selection. From now on all the menus will appear in the selected language.



- 3** Push the joystick to **▼** or **▲** to select the country in which you will operate the projection TV set, then press **OK** to confirm your selection.



GB

- ①** Select "Off" instead of a country if you do not want your channels (TV Broadcasts) stored in a given channel sequence starting from programme position 1.

- ⚠** If you are operating the projection TV in the UK, we recommend you not to select "Off". Otherwise the On Screen clock will not show the correct UK time.

- 4** The Auto Tuning menu appears on the screen in the selected language, then press the **OK** button on the remote control to select **YES**.

Do you want to start automatic tuning?

Yes: OK No: **◀**

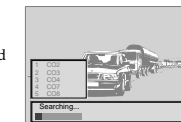
- 5** A new menu appears automatically on the screen asking you to check that the aerial is connected. Confirm that the aerial is connected and then press the **OK** button to start the automatic tuning.

Please confirm that aerial is connected!

Yes: OK No: **◀**

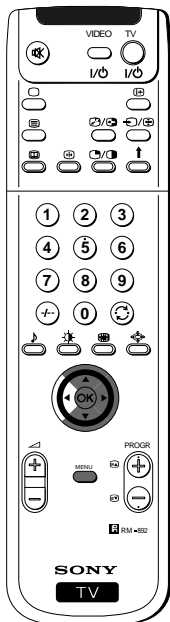
- ①** The TV starts to automatically search and store all available channels (TV Broadcast) for you.

- ⚠** This procedure could take some minutes. Please, be patient and do not press any button. Otherwise the automatic tuning will not be completed.



continued ...

## First Time Operation



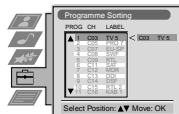
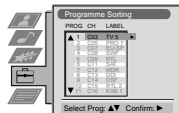
- 6** After all available channels are captured and stored, the Programme Sorting menu appears automatically on the screen enabling you to change the order in which the channels appear on the screen.

- a) If you do not wish to change the channel order, go to step 7.
- b) If you wish to change the channel order:
- 1 Push the joystick on the remote control to ▼ or ▲ to select the programme number with the channel (TV Broadcast) you wish to rearrange, then push to ►.

- 2 Push the joystick to ▼ or ▲ to select the new programme number position for your selected channel (TV Broadcast), then press OK.

**i** The selected channel now moves to its new programme position and the other channels move accordingly.

- 3 Repeat steps b1) and b2) if you wish to change the order of the other channels.



- 7** Press the MENU button to exit and return to the normal TV screen.

**i** Your projection TV is now ready for use.



## First Time Operation - Menu System

### Adjusting Colour Registration (Convergence)

**i** Due to the earth's magnetism, the picture might become undefined and you could see different colours on the outlines of the images. In that case, proceed as follows:



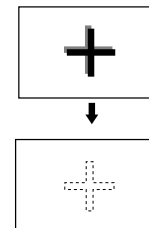
#### Auto converge the Red, Green, and Blue Lines

- 1 Press on the mark , on the front of the projection TV to reveal the front connectors.
- 2 Press  button placed on the right side of front connectors.

**i** The Auto Convergence function works for about 10 seconds. When the white cross disappears from the screen, your projection TV is ready for use.

#### Notes:

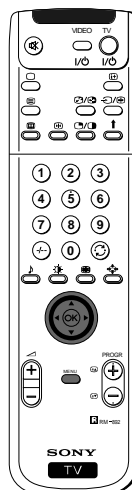
- The Auto Convergence function does not work when:
- no signal is input.
  - the input signal is weak.
  - the screen is exposed to spotlights or direct sunlight.
  - you watch the teletext broadcast.
  - you watch NexTVview.



GB

## Introducing the Menu system

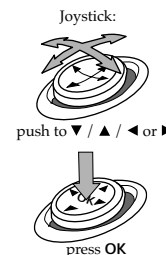
**i** Your projection TV uses an on-screen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:



- 1** Press the MENU button to switch the first level menu on.

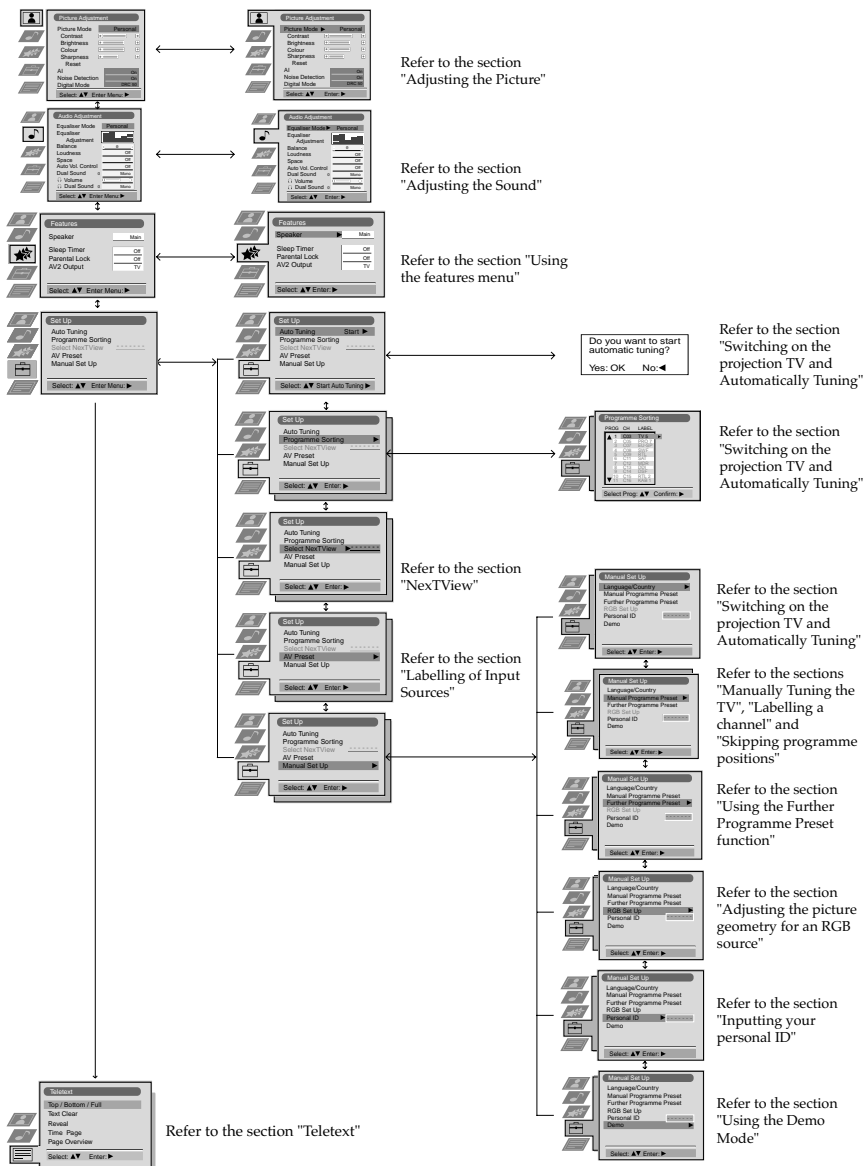


- 2**
- To highlight the desired menu or option, push the joystick to ▼ or ▲.
  - To enter to the selected menu or option, push to ►.
  - To return to the last menu or option, push to ◀.
  - To alter settings of your selected option, push to ▼ / ▲ / ◀ or ►.
  - To confirm and store your selection, press OK.



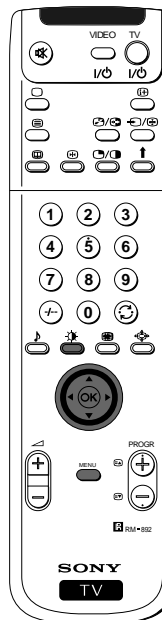
- 3** Press the MENU button to remove the menu from the screen.

## On Screen display Menus Guide

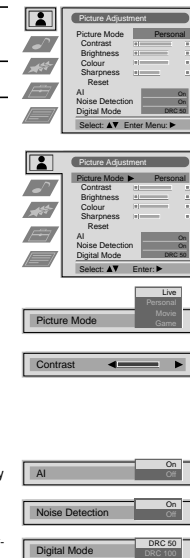


## Adjusting the Picture

1 Although the picture is adjusted at the factory, you can modify it to suit your own taste.



- Press the **MENU** button on the remote control to display the menu on the screen.
  - Push the joystick to **▶** to enter the **Picture Adjustment** menu.
  - Push the joystick to **▼** or **▲** to select the item you wish to change, then push to **▶**. Refer to the table below to choose the item and for the effect of each control:
- | Picture Mode                        | Live (for live broadcast programmes)   | Personal (for individual settings) | Movie (for films) | Game (for computer games) |
|-------------------------------------|--|------------------------------------|-------------------|---------------------------|
| <b>Contrast</b>                     | ◀ Less   | ▶ More                             |                   |                           |
| <b>Brightness*</b>                  | ◀ Darker   | ▶ Brighter                         |                   |                           |
| <b>Colour*</b>                      | ◀ Less   | ▶ More                             |                   |                           |
| <b>Sharpness*</b>                   | ◀ Softer   | ▶ Sharper                          |                   |                           |
| <b>Hue**</b>                        | ◀ Reddish  | ▶ Greenish                         |                   |                           |
| <b>Reset</b>                        | Ⓢ Resets picture to the factory preset levels.   |                                    |                   |                           |
| <b>AI (Artificial Intelligence)</b> | ▶ <b>Off:</b> Normal   |                                    |                   |                           |
|                                     | ▶ <b>On:</b> Automatic optimization of contrast level according to the TV signal             |                                    |                   |                           |
| <b>Noise Detection</b>              | ▶ <b>Off:</b> Normal   |                                    |                   |                           |
|                                     | ▶ <b>On:</b> Reduces picture noise in the case of a weak/noisy broadcast signal.             |                                    |                   |                           |
| <b>Digital Mode</b>                 | ▶ <b>DRC 50:</b> improves picture resolution and is optimal for viewing scrolling characters |                                    |                   |                           |
|                                     | ▶ <b>DRC 100:</b> improves picture resolution creating flicker-free pictures                 |                                    |                   |                           |
- \* Can only be altered if Personal Picture Mode is selected.  
\*\* Only available for NTSC colour signal (e.g. USA video tapes).
- Push the joystick to **▲**, **▼**, **◀** or **▶** to alter the selected item, then press the **OK** button to store the new adjustment.
  - Repeat steps 3 and 4 to alter the other items.
  - Press the **MENU** button to exit and return to the normal TV screen.



GB

## Changing the Picture Mode Quickly

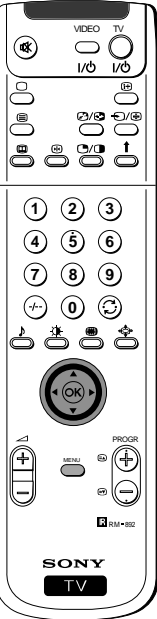
- You can quickly change the Picture Mode without entering the Picture Control menu screen.
- Press the **Ⓢ** button on the remote control repeatedly to directly access and select your desired picture mode (**Live**, **Personal**, **Movie**, or **Game**).
- Press the **OK** button to remove the display from the screen.



Menu System

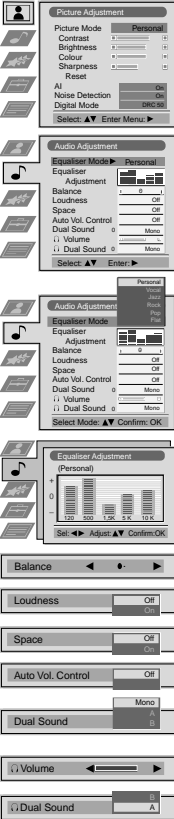
Adjusting the Sound

① Although the sound is adjusted at the factory, you can modify it to suit your own taste.

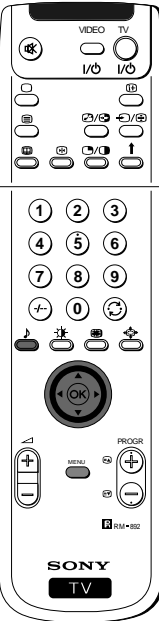


- 1 Press the **MENU** button on the remote control to display the menu on the screen.
  - 2 Push the joystick to **▼** to select the **♪** symbol, then push to **▶** to enter to the **Audio Adjustment** menu.
  - 3 Push the joystick to **▼** or **▲** to select the item you wish to change, then push to **▶**.  
Refer to the table below to chose the item and for the effect of each control.
- Equaliser Mode** ▼ **Personal** (for individual settings)  
Vocal  
Jazz  
Rock  
Pop  
▲ **Flat** (fixed setting, cannot be adjusted)
- \*Equaliser Adjustment** Push to **▶** or **◀** to select the frequency band you want to alter and push to **▼** or **▲** to adjust. Finally, press the **OK** button to store the new adjustment
- Balance** ◀ Left ▶ Right
- Loudness** ▼ Off: normal  
▲ On: for music broadcasts
- Space** ▼ Off: normal  
▲ On: acoustic sound effect
- Auto Vol. Control** ▼ Off: volume level changes according to the broadcast signal  
▲ On: volume level of the channels will stay the same independent of the broadcast signal (e.g. in case of advertisement)
- Dual Sound** • For a stereo broadcast:  
▼ **Mono**  
▲ **Stereo**  
• For a bilingual broadcast:  
▼ **Mono** (for mono channel if available)  
A (for channel 1)  
▲ **B** (for channel 2)
- Headphones:**  
Ω **Volume** ◀ Less ▶ More
- Ω **Dual Sound** • For a stereo broadcast:  
▼ **Mono**  
▲ **Stereo**  
• For a bilingual broadcast:  
▼ **Mono** (for mono channel if available)  
A (for channel 1)  
B (for channel 2)  
▲ **PAP** (only when PAP is switched on)

\* Can only be permanently stored if Personal Equaliser Mode is selected, the other modes (Vocal, Jazz, Rock or Pop) store until the next mode change.



Menu System



- 4 Push the joystick to **▼**, **▲**, **◀** or **▶** to alter the selected item, then press the **OK** button to store the new adjustment.
- 5 Repeat steps 3 and 4 to alter the other items.
- 6 Press the **MENU** button to exit and return to the normal TV screen.

Changing Sound Mode Quickly

① You can quickly change Sound mode without entering the Sound Control menu screen.

- 1 Press the **♪** button on the remote control repeatedly to directly access and select your desired sound mode (**Personal**, **Vocal**, **Jazz**, **Rock**, **Pop** or **Flat**).
- 2 Press the **OK** button to remove the display from the screen.



GB

## Menu System

### Using the Features Menu

- ① Using the Features menu you can:
- Select if you want to listen to the sound from the projection TV directly or through an external amplifier
  - Select a time period after which the projection TV switches itself into standby mode.
  - Lock the buttons on the projection TV set. In this way, the projection TV only works by using the remote control buttons.
  - Select the source to be output from the Scart connector ②-③ 2 (SMARTLINK). In this way you can record from this scart connector while watching another source. If your VCR supports Smartlink, this procedure is not necessary.

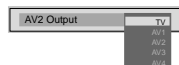
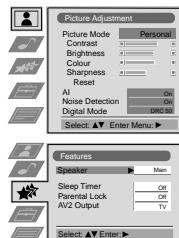


- Press the **MENU** button on the remote control to display the menu on the screen.
- Push the joystick to ▼ to select the symbol, then push to ► to enter to the **Features** menu.
- Push the joystick to ▼ or ▲ to select the desired menu item, then push to ► (see the table below for the effect of each menu item).
- Push to ▼ or ▲ to select the desired setting and press the **OK** button to store.
- Press the **MENU** button to exit and return to the normal TV screen.

#### Features Effect/Operation

<b>Speaker</b>	▼ <b>Main</b> (sound from projection TV set) ▲ <b>Centre In</b> (sound from external amplifier)
<b>Sleep Timer</b>	▲ <b>Off</b> 10 min. 20 min. ... ▼ <b>90 min.</b> ① One minute before the projection TV switches into standby mode, the time remaining is displayed on the screen automatically. • When watching the TV, press the  button on the remote control to display the time remaining. • To return to normal operation from standby mode, press the <b>TV I/O</b> button on the remote control.
<b>Parental lock</b>	▼ <b>Off</b> (Normal mode) ▲ <b>On</b> (The projection TV can only be switched on using the remote control, the buttons on the TV do not work)
<b>AV2 Output</b>	▼ <b>TV</b> (audio/video signal from the aerial). <b>AV1</b> (audio/video signal from the Scart connector ②-③ 1 ~ ②). <b>AV2</b> (audio/video signal from the Scart connector ②-③ 2 (SMARTLINK)). <b>AV3</b> (audio/video signal from the Scart connector ②-③ 3). ▲ <b>AV4</b> (audio/video signal from the connector ④ placed in the front of the Projection TV).

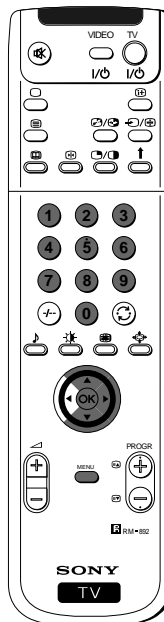
⚠ If you have connected a decoder, please remember to change back the AV2 Output to "TV" for correct unscrambling.



## Menu System

### Manually Tuning the TV

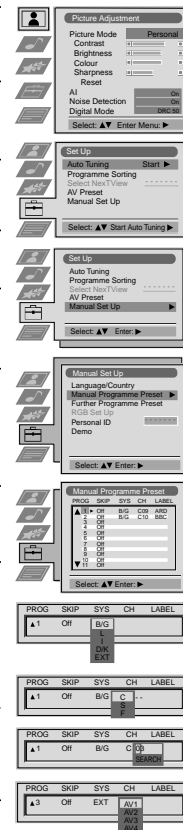
- ① Use this function to preset channels (TV Broadcast) or a video input source one by one to the programme order of your choice.



- Press the **MENU** button on the remote control to display the menu on the screen.
- Push the joystick to ▼ to select the symbol, then push to ► to enter the **Set Up** menu.
- Push the joystick to ▼ or ▲ to select **Manual Set Up**, then push to ►.
- Push the joystick to ▼ or ▲ to select **Manual Programme Preset**, then push to ►.
- Push the joystick to ▼ or ▲ to select on which programme number you want to preset a channel (for VCR select programme number "0"), then push twice to ►. The column **SYS** is highlighted.
- Push the joystick to ▼ or ▲ to select the system for TV Broadcast and VCR channel (B/G for western European countries, L for France, I for Great Britain or D/K for eastern European countries) or an external input source (EXT), then push to ►. The column **CH** is highlighted.
- Push the joystick to ▼ or ▲ to select the channel tuning, "C" for terrestrial channels (for TV Broadcast or VCR channel), "S" for cable channels or F for, direct frequency input then push to ►.
- If you know the channel number of the TV Broadcast, the VCR test signal channel or the frequency, press the number buttons to enter directly the channel number. Then press the **OK** button to store.
  - If you do not know the channel number, push the joystick to ▼ to select **SEARCH** and the projection TV starts automatically to search for the next available TV Broadcast channel or the channel of the VCR signal. Then press the **OK** button to store or press ▼ to continue searching the desired channel.
  - For external input sources (EXT), push to ▼ to select the input source where you have connected your equipment (AV1, AV2, AV3 or AV4). Then press the **OK** button to store.

- Repeat steps 4 to 8 a), b) or c) if you wish to store more channels.
- Press the **MENU** button to exit and return to the normal TV screen.

👉 Your projection TV is now ready for use.

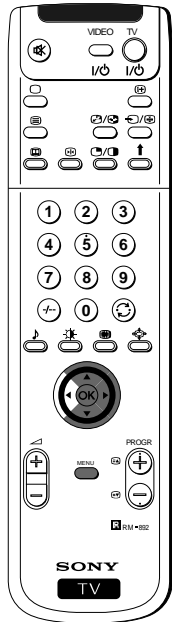


GB

## Menu System

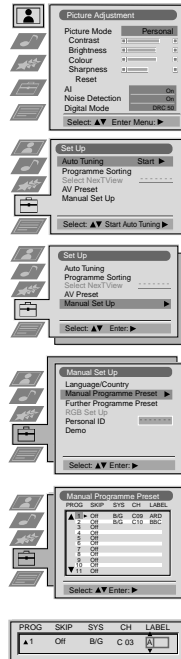
### Labelling a channel

- ① Names for channels (TV Broadcasts) are usually taken automatically from Teletext if available. You can however name a channel or an input video source using up to five characters (letters or numbers). Using this function, you can easily identify which channel (TV Broadcasts) or video source you are watching.



- 1 Press the **MENU** button on the remote control to display the menu on the screen.
- 2 Push the joystick to **▼** to select the symbol, then push to **▶** to enter the **Set Up** menu.
- 3 Push the joystick to **▼** or **▲** to select **Manual Set Up**, then push to **▶**.
- 4 Push the joystick to **▼** or **▲** to select **Manual Programme Preset**, then push to **▶**.
- 5 Push the joystick to **▼** or **▲** to select the programme number with the channel you wish to name.
- 6 Push the joystick to **▶** repeatedly until the first element of the **LABEL** column is highlighted.
- 7 Push the joystick to **▼** or **▲** to select a letter, number, "+" or a blank, then push to **▶** to confirm this character. Select the other four characters in the same way.
- 8 After selecting all the characters, press the **OK** button.
- 9 Repeat steps 5 to 8 if you wish to label other channels.
- 10 Press the **MENU** button to exit and return to the normal TV screen.

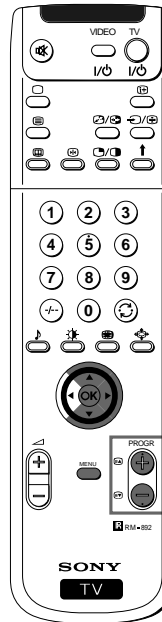
👉 When you select a named channel, the name appears for a few seconds on the screen.



## Menu System

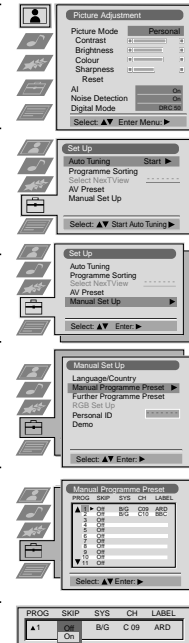
### Skipping Programme positions

- ① You can programme this projection TV to skip any unwanted programme numbers when they are selected with the **PROGR +/-** buttons. To cancel this function afterwards, proceed in the same way as described below by selecting **Off** instead of **On** in step 6.



- 1 Press the **MENU** button on the remote control to display the menu on the screen.
- 2 Push the joystick to **▼** to select the symbol, then push to **▶** to enter the **Set Up** menu.
- 3 Push the joystick to **▼** or **▲** to select **Manual Set Up**, then push to **▶**.
- 4 Push the joystick to **▼** or **▲** to select **Manual Programme Preset**, then push to **▶**.
- 5 Push the joystick to **▼** or **▲** to select the programme position you want to skip, then push to **▶** to enter the **SKIP** column.
- 6 Push the joystick to **▼** to select **On**, then press the **OK** button to store.
- 7 Repeat steps 5 and 6 to skip other unused programme positions.
- 8 Press the **MENU** button to exit and return to the normal TV screen.

👉 When changing channels (TV Broadcasts) with the **PROGR +/-** buttons, the skipped programme positions do not appear. You can, however, still select them using the number buttons.

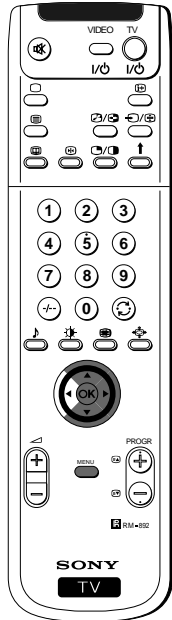


GB

## Advanced Operation - Advanced Presetting

### Using the "Further Programme Preset" function

- ① With this feature you can:
- Individually attenuate the strength of a channel signal in case of a strong local aerial signal (striped picture).
  - Individually adjust the volume level of each channel.
  - Even normally the automatic fine tuning (AFT) is operating, however you can manually fine-tune the TV to obtain a better picture reception if the picture is distorted.
  - Preset the AV output for the programme positions of channels with scrambled signals (eg from a pay TV decoder). In this way a connected VCR records the unscrambled signal.

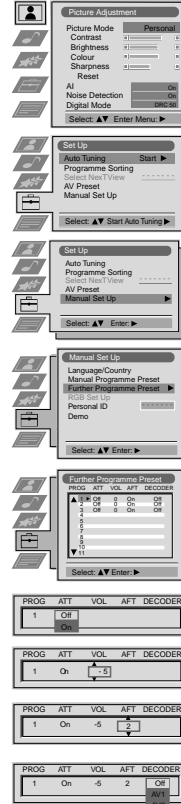


- Press the **MENU** button on the remote control to display the menu on the screen.
- Push the joystick to **▼** to select the symbol, then push to **▶** to enter the **Set Up** menu.
- Push the joystick to **▼** or **▲** to select **Manual Set Up** then push to **▶** to enter.
- Push the joystick to **▼** or **▲** to select **Further Programme Preset**, then push to **▶**.
- Push the joystick to **▼** or **▲** to select the relevant programme number, then push to **▶** repeatedly to select:
  - ATT** (RF attenuator)
  - VOL** (Volume Offset)
  - AFT** (Automatic Fine Tuning) or
  - DECODER**
 The selected item changes colour.
- ATT**  
Push the joystick to **▼** to select **On**, then press the **OK** button. Repeat steps 5 and 6 a) to attenuate other channels.
  - VOL**  
Push the joystick to **▼** or **▲** to adjust the volume level of the channel over a range of -7 to +7, then press the **OK** button. Repeat steps 5 and 6b) to adjust the volume level of the other channels.
  - AFT**  
Push the joystick to **▼** or **▲** to fine tune the channel frequency over a range of -15 to +15, then press the **OK** button. Repeat steps 5 and 6c) if you wish to fine tune other channels.
  - DECODER**  
Push the joystick to **▼** or **▲** to select **AV1** (for a decoder connected to the Scart or or **AV2** (for a decoder connected to the Scart - 2 (SMARTLINK)), then press the **OK** button. Repeat steps 5 and 6d) to select the AV1 or AV2 output for other programme positions.

① The picture from the decoder connected to the Scart connector or or 2 (SMARTLINK) on the back of the projection TV will appear on this programme number.

- Press the **MENU** button to exit and return to the normal TV screen.

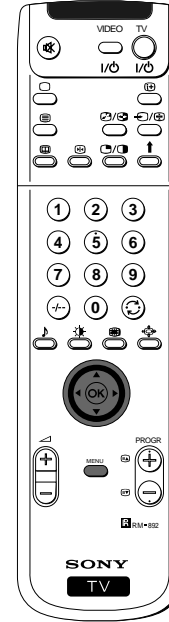
Your projection TV is now ready for use.



## Menu System

### Inputting Your Personal ID

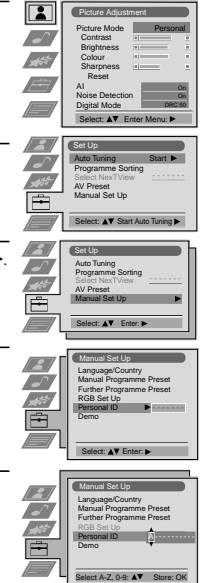
- ① You can programme this projection TV with a personal code, using up to eleven characters (letters and numbers). Then using this function it will be possible to identify your projection TV if it was ever stolen.
- This code can only be input once!  
Make sure to write it down in this instruction manual.



- Press the **MENU** button on the remote control to display the menu on the screen.
- Push the joystick to **▼** to select the symbol, then push to **▶** to enter the **Set Up** menu.
- Push the joystick to **▼** or **▲** to select **Manual Set Up**, then push to **▶**.
- Push to **▼** or **▲** to select **Personal ID**, then push to **▶**.
- Push the joystick to **▼** or **▲** to select a letter, number, + or a blank; then push to **▶** to confirm this character. Select the other ten characters in the same way.
- After selecting all the characters, press the **OK** button. A new menu appears automatically on the screen asking you to be sure that you want to save this ID.
- If you do not wish to store this ID, push the joystick to **◀** and repeat steps 4 to 6 to enter a new ID.
  - If you wish to store this ID, press the **OK** button.

Remember that this code can only be input once.
- Press the **MENU** button to return to the normal TV screen.

When you enter the **Manual Set Up** menu, in the "Personal ID" option the code you entered above will be displayed. You will not be able to select and change this option.

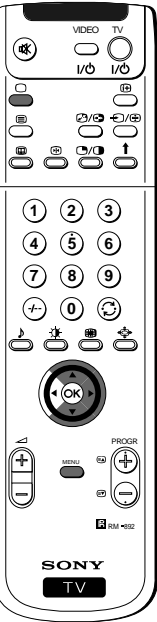


GB

# Menu System

## Using the Demo Mode

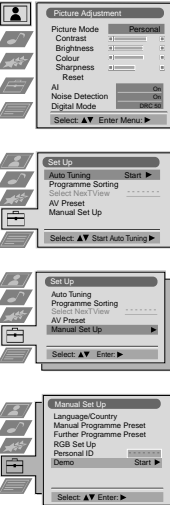
**i** This function provides an overview of some of the features available on your projection TV.



- 1 Press the **MENU** button on the remote control to display the menu on the screen.
- 2 Push the joystick to **▼** to select the **Picture** symbol, then push to **▶** to enter the **Set Up** menu.
- 3 Push the joystick to **▼** or **▲** to select **Manual Set Up**, then push to **▶**.
- 4 Push to **▼** or **▲** to select **Demo**, then push to **▶** to enter and start the demonstration.

*The projection TV starts the demonstration and shows most of the available picture functions.*

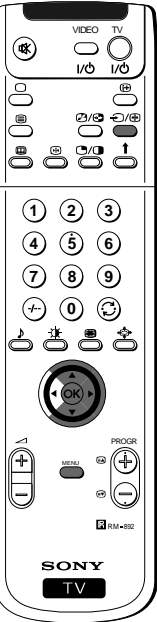
**Note:**  
Press the **OK** button on the remote control to stop the Demo mode and return to the normal TV screen.



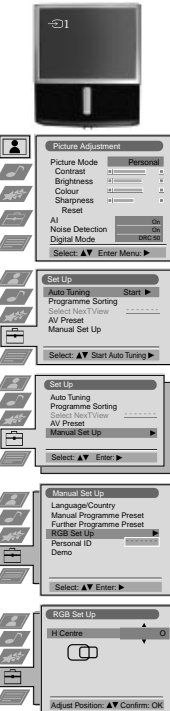
# Menu System

## Adjusting the picture geometry for an RGB source

**i** When connecting an RGB source, such as a DVD player, to the Scart connector **1** you may need to readjust the geometry of the picture.



- 1 Press the **1** button repeatedly on the remote control until the symbol **1** appears on the screen.
- 2 Push the **MENU** button to display the menu on the screen.
- 3 Push the joystick to **▼** to select the **Picture** symbol, then push to **▶** to enter the **Set Up** menu.
- 4 Push to **▼** or **▲** to select **Manual Set Up** then push to **▶** to enter.
- 5 Push the joystick to **▼** or **▲** to select **RGB Set Up** then push to **▶**.
- 6 Push the joystick to **▶** to enter **H Centre**, then push to **▲** or **▼** to adjust the centre of the picture over a range of -10 to +10. Press the **OK** button to store.
- 7 Press the **MENU** button to exit and return to the normal TV screen.



**GB**


## Menu System

### Labelling of Input Sources

- i** This function enables you to designate a name to the optional equipment you have connected to the sockets of this projection TV. This name can contain up to 5 characters (letters or numbers).



**1** Press the **MENU** button on the remote control to display the menu on the screen.

**2** Push the joystick to **▼** to select the  symbol, then push to **▶** to enter the **Set Up** menu.

**3** Push the joystick to **▼** or **▲** to select **AV Preset**, then push to **▶**.


**4** Push the joystick to **▼** or **▲** to select the input source you wish to name (eg AV2), then push to **▶** to highlight the first element of the **Label** column.

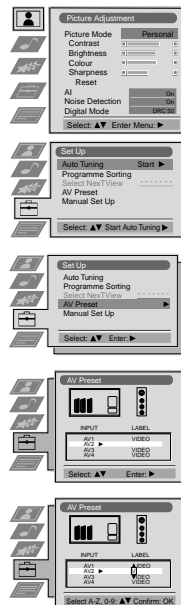
**5** Push the joystick to **▼** or **▲** to select a letter, number, "+" or blank; then push to **▶** to confirm this character. Select the other four characters in the same way.

**6** After selecting all the characters, press the **OK** button.

**7** Repeat steps 4 to 6 if you wish to label other input sources.

**8** Press the **MENU** button to exit and return to the normal TV screen.

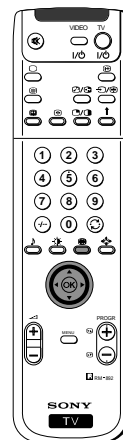
 Whenever the equipment with the labeled input is selected for use, the name appears for a few seconds on the screen.




## Menu System

### Using Multi PIP (Picture In Picture)


- i** Multi PIP (Picture in Picture) mode displays a succession of 12 still pictures and a 13th that is live. You can manually select which channel you wish to watch, either full-screen or in the PIP.



**1** Press the  button on the remote control to select the PIP mode. Now 13 programme positions appear on the screen, with the current channel in the centre.

**2** Push the joystick to **▲**, **▼**, **◀** or **▶** to move within the 13 displayed channels.

**3** Press the **OK** button to select the framed channel. The selected channel moves to the centre.

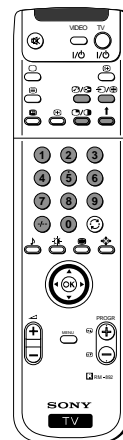
**4** Press  to return to the normal TV mode.





GB

### Using PAP (Picture And Picture)





- i** PAP divides the screen into two for watching two channels simultaneously. One of the pictures can be selected to come from a video source. The sound of the left screen comes through projection TV loudspeakers, the sound of the right screen is selectable via headphones.

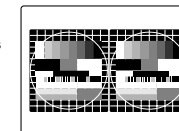


#### Switching PAP on and off


Press the button  on the remote control to display the two screens in format 4:3. Press  again to switch PAP off.

#### Selecting PAP source

- 1** To change the source of the left screen:  
With PAP switched on, press the number buttons (to select a TV channel) or press  (to select a video source).
- 2** To change the source of the right screen:  
With PAP switched on, press the button  on the remote control. When the symbol  appears at the bottom of the right screen, press the number buttons (to select a TV channel) or press  (to select a video source).



#### Swapping screens

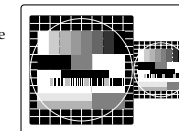
With PAP switched on, press the  button on the remote control to swap the two screens.

#### Zooming the screens

With PAP switched on, push the joystick repeatedly to **◀** or **▶** to change the size of the two screens.

#### Selecting the sound of the right screen

You can select the sound of the right screen via headphones. With PA switched on, refer to the "Adjusting the Sound" section of this instruction manual and set the option "Dual Sound" to "PAP".



## Teletext

### Teletext

**i** Most TV channels broadcast information via Teletext. The index page of the teletext service (usually page 100) gives you information on how to use the service.

**A** Please use a TV channel with a strong signal, otherwise there may be Teletext errors.



#### Switching Teletext on and off

- 1 Select the TV channel which carries the teletext service you want to view.
- 2 Press the **⏏** button once for Picture and Teletext (P&T). The screen is divided in two, with the TV channel in the right corner and the Teletext display on the left.  
**i** P&T mode: Press **⏏** then press **PROGR +/-** to change the channel of the TV screen. Push the joystick to **◀** or **▶** to change the size of the TV screen then press **⏏** again to resume normal teletext reception.
- 3 Press **⏏** twice to get Teletext only.
- 4 Press **⏏** three times for Mix mode.
- 5 Press **⏏** a fourth time or press **⏏** to switch off Teletext.

#### Selecting a Teletext page

Input three digits for the page number using the numbered buttons on the control. If you make a mistake, type in any three digits then re-enter the correct page number.

#### Using Other Teletext Functions

##### Selecting the next or preceding page

Press the **PROGR +** or **PROGR -** buttons on the remote control to select the previous or next page.

##### Selecting a sub page

A teletext page may consist of several sub pages. In this case, after a few seconds, an information line is displayed showing the number of subpages.

Select the sub page by pressing **▲** or **▼**.

##### To freeze a Teletext page

Press the **⏏** button to freeze the page. Press again to cancel the freeze.

##### Revealing the index page

Press the **⏏** button to reveal the index page (normally page 100).

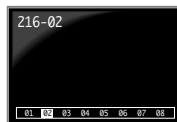
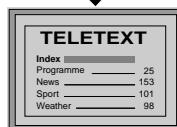
##### Fastext

(only available if the TV station broadcasts Fastext signals)

When the colour coded menu appears at the bottom of a teletext page, press a coloured button on the remote control (red, green, yellow or blue) to access the corresponding page.

##### Using the feature "Page Catching"

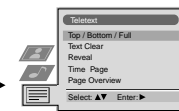
- 1 Press the numbered buttons on the remote control to select a teletext page which has several page numbers on it (eg the index page).
- 2 Press the **OK** button.
- 3 Push the joystick to **▲** or **▼** to select the desired page number then press the **OK** buttons. The requested page is displayed after some seconds.



## Teletext

#### Using the Teletext menu

- 1 With Teletext switched on, press the **MENU** button on the remote control to display the teletext menu on the TV screen.
- 2 Push the joystick to **▲** or **▼** to select your chosen item, then push to **▶** to display the relevant sub menu.
- 3 To remove the teletext menu from the screen, press the **MENU** button.



#### Top/Bottom/Full

The Top/Bottom/Full sub menu allows you to enlarge different sections of the Teletext page. Push the joystick **▲** to enlarge the upper half of the screen, push to **▼** to enlarge the lower half. Press the **OK** button to restore the page to normal size.

Top: ▲ Bottom: ▼ Full: OK

#### Text Clear

After having selected this function, you can watch a TV channel while waiting for a requested Teletext page. As soon as the page is available, the symbol **⏏** changes colour. To view the page, press **⏏**.

#### Reveal

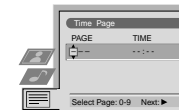
Some teletext pages contain hidden information (eg for a quiz), which you can reveal. The hidden information appears on screen.

#### Time Page

(depending on availability of teletext service).

You can call up a time-coded page such as an alarm page at a time specified by you. After you have displayed the Time Page sub menu:

- 1 Press the numbered buttons on the remote control to enter the three digits of the desired page.
- 2 Press the numbered buttons again to enter the four digits of the desired time.
- 3 Press the **OK** button to store the desired time. The time is displayed in the top left corner of the screen. At the requested time the page is displayed.



#### Page Overview

(depending on availability of teletext service).

In the Page Overview menu the block and group pages of TOP- Text are sorted into two columns, so that the customer can easily select this page. For each block page in the first column, the corresponding group pages are shown in the second column. Push the joystick **▲** or **▼** to select the desired block page, then push to **▶** to enter to the group pages column. Push to **▲** or **▼** to select the desired group page. Finally, press the **OK** button to display the page.

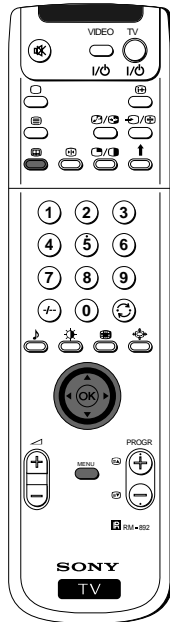
continued ...

## NexTVView

### NexTVView\*

\* (depending on availability of service)

- ① NexTVView is an on-screen electronic programme guide (EPG), providing you with programme information for different broadcasters.



### Selecting your NexTVView provider

- ① Your projection TV automatically selects the best NexTVView provider for you. This provider is available about 30 minutes after the channel tuning. You can however change this selection of provider if you wish.
- 1 Press the **MENU** button on the remote control to display the menu on the screen.
  - 2 Push the joystick to **▲** or **▼** to select the symbol, then push to **▶** to enter the **Set Up** menu.
  - 3 Push to **▲** or **▼** to highlight **Select NexTVView** then push to **▶**. A list is displayed containing all available NexTVView providers.
  - 4 Push to **▲** or **▼** to select the desired provider then press the **OK** button to store.
  - 5 Press the **MENU** button to remove the menu from the screen.

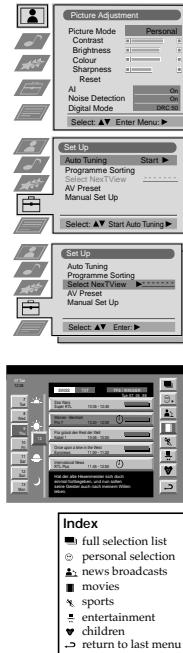
### Displaying NexTVView

- 1 Press the **Ⓜ** button repeatedly on the remote control to switch NexTVView on and off.  
\* In some cases, you may also need to push the joystick to **◀** to display the Sony electronic programme guide.
- 2 Push the joystick to **▲**, **▼**, **◀** or **▶** buttons to move the cursor around the screen.
- 3 Press the **OK** button to confirm a selection.  
a) If you press the **OK** button in the date, time or icon (themes) columns, you change the programme list according to the selection.  
b) If you press the **OK** button in the programme list, you directly display the channel if the broadcast is currently running, or, you display the "Long Info" menu if the broadcast is running at some future time.

### Using the "Individual Setting" menu

- ① You can make a personal list of the types of programmes you wish to view on the programme guide.

- 1 Push the joystick **▲** or **▼** to select the icon then push to **▶** to display the "Individual Setting" menu.
- 2 Push the joystick **▲** or **▼** to select your chosen item on the screen then press the **OK** button to confirm your choice.
- 3 Repeat step 2 for all the items you wish to have in your list.
- 4 When you have finished the list, push to **▶** to select the icon.
- 5 Press the **OK** button to return to the previous menu.
- 6 Push the joystick **▲** or **▼** to select the icon then press the **OK** button again to activate your "Individual Setting" filter.



## NexTVView

### Using the Long Info menu

- ① With this menu screen, you can set timers or record selected programmes.

- 1 Push **▲** or **▼** to select a future programme in the programme list column.
- 2 Press the **OK** button to display the **Long Info** menu on the TV screen.

### To set the timer

Push the joystick **◀** or **▶** to highlight the icon then press the **OK** button repeatedly to "set the timer" or "cancel the timer". If you choose to set the timer, the programme is marked with a clock symbol and a message appears on the screen shortly before the programme is due to start asking whether you wish to still view this programme.

### To view the timer table

Push the joystick **◀** or **▶** to highlight the icon then press the **OK** button repeatedly to switch on/off the timer table. This table shows the programmes on which you have already set a timer. (You can set a timer on up to 5 programmes).

### To record programmes

(only with Smartlink VCRs).

- 1 Connect your Smartlink VCR.
- 2 Push the joystick to **◀** or **▶** to select then press the **OK** button to download the information to your VCR.
- 3 To set up the VCR:

#### VPS/PDC

Push the joystick **◀** or **▶** to select **VPS/PDC** then press the **OK** button repeatedly to select **On** or **Off**. With this setting on you have the guaranteed recording of the whole broadcast should there be a change in the TV programme. This only works if the selected channel broadcasts a VPS/PDC signal.

#### Speed

Push the joystick to **▼** to select **Speed** then press the **OK** button repeatedly to select between **SP** for standardplay or **LP** for longplay. With longplay you can record twice as much on a videotape. The picture quality however may suffer.

#### VCR Setup

Push the joystick to **▼** to select **VCR Setup** then press the **OK** button repeatedly to select which **VCR** you wish to programme, namely **VCR1** or **VCR2**.

- 4 Finally, push the joystick to **▶** to select the icon then press the **OK** button to remove the menu from the TV screen.



GB

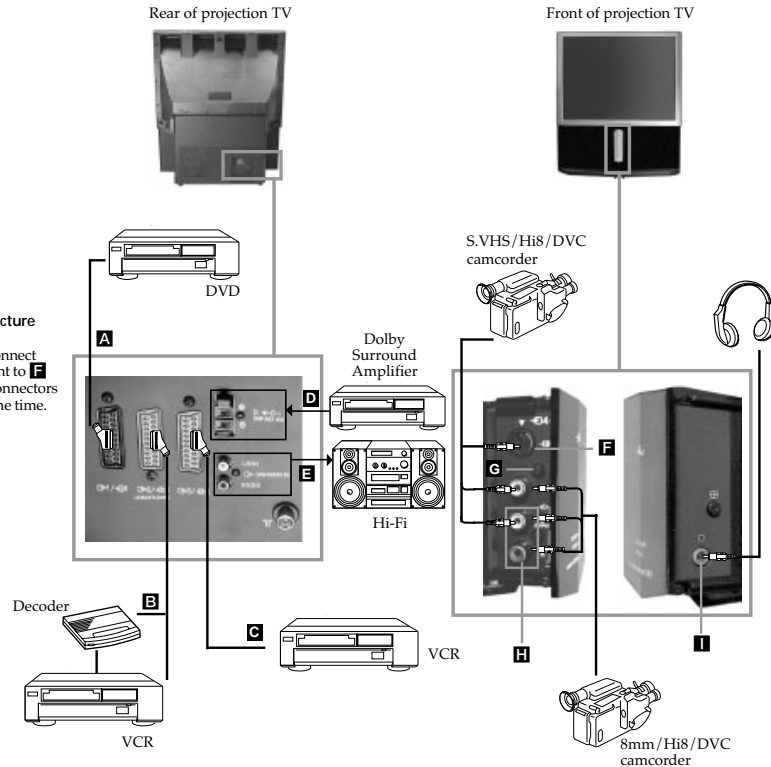


continued ...

## Optional Connections

### Connecting Optional Equipment

① Using the following instructions, you can connect a wide range of optional equipment to your projection TV.



To avoid picture distortion:

- Do not connect equipment to **F** and **G** connectors at the same time.

Acceptable input signal	Available output signal
<b>A</b> Audio/video and RGB signal	Video/audio from TV tuner
<b>B</b> Audio/video and S video signal	Video/audio from selected source
<b>C</b> Audio/video and S video signal	Video/audio displayed on TV screen (monitor out)
<b>D</b> Centre speaker input Set "Speaker" on the Features menu to "Centre in".	No outputs
<b>E</b> No inputs	Audio signal
<b>F</b> S Video signal	No output
<b>G</b> Video signal	No output
<b>H</b> Audio signal	No output
<b>I</b> No input	Audio signal to headphones

## Optional Connections

### Using Optional Equipment

#### Additional Information when connecting equipment

##### Connecting a VCR

We recommend you connect your VCR to the **B** or **C** socket using a scart lead. If you do not have a scart lead, use the "Manually Tuning the TV" section of this instruction manual to tune in the channel of the VCR test signal to TV programme number "0". Also refer to your VCR instruction manual to get the VCR test signal. If your video supports Smartlink please refer to the "Smartlink" section of this instruction manual.

##### Connecting to External Audio Equipment

##### 1 To listen to the audio of your projection TV on the Hi-Fi equipment:

Plug in your Hi-Fi equipment to the **E** sockets on the rear of the projection TV if you wish to amplify the audio output from the TV.

The output level from **E** sockets can be varied by adjusting the volume of the headphones. Refer to the "Adjusting the sound" section of this instruction manual to adjust the volume of the headphones.

##### 2 To listen to the Dolby Prologic system sound on the projection TV speakers:

Plug in your Dolby Prologic system decoder amplifier to the **D** socket on the rear of the projection TV if you wish to listen to the audio output from your equipment on the projection TV speaker. If you have a Dolby amplifier, connect the centre output from your amplifier to the **D** socket to use the projection TV as a centre speaker. Refer to the "Using the Features menu" section of this instruction manual and set the option "Speaker" to "Centre in".

**⚠** Remember that the maximum input level of this input is 30 W. Be careful never to over this limit.

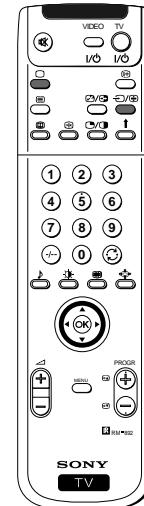
##### For mono equipment

Connect the phono plug to the L/G/S/I socket on the front of the TV and select the **4** input signal using the instructions on this page below.

GB

#### Select and View the Input Signal

① In order to get the input signal of a connected equipment onto the TV screen, you need to select the symbol of the connector to which you have connected the device.  
e.g. : Your VCR is connected to the connector with the symbol **1** / **1**. Press the button **1** on the remote control repeatedly until you see the symbol **1** on the screen.



**1** Connect your equipment to the designated projection TV socket, as it is indicated on the previous page.

**2** Press the **1** button repeatedly on your remote control until the correct input symbol appears on the screen.

##### Symbol Input signals

- 1** Audio/video input signal through the Scart connector **A** or \* RGB through Scart connector **A**
  - 2** Audio/Video input signal through the Scart connector **B** or \* S Video through Scart connector **B**
  - 3** Audio/Video input signal through the Scart connector **C** or \* S Video through Scart connector **C**
  - 4** S Video input signal through the 4-pin DIN connector **F** or \* video input signal through phono jack **G** and audio input signal through phono jacks **H**.
- \* (automatic detection of the signal according to the connected equipment).

**3** Switch on the connected equipment.

**4** To return to the normal TV picture, press the **0** button on the remote control.

## Optional Connections

### Smartlink

- ① Smartlink is a direct link between your projection TV set and a VCR.

#### For Smartlink you need:

- A VCR which supports Smartlink, NextView Link, Easy Link or Megalogic.

① Megalogic is a trademark of Grundig Corporation.  
EasyLink is a trademark of Philips Corporation.

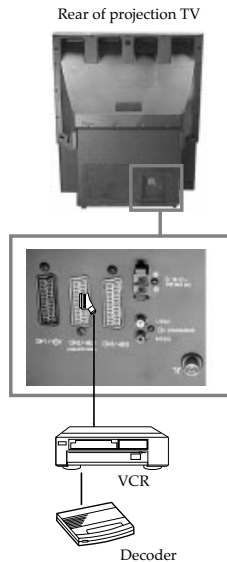
- A fully-wired 21 pin SCART cable to connect your VCR to the Scart connector (G-2/-E3 2 (SMARTLINK) on the rear of the Projection TV.

#### The features of Smartlink are:

- Tuning information such as the channel overview are downloaded from the projection TV set to the VCR.
- Direct projection TV recording: While watching TV you need to press just one button on the VCR to record this programme.
- Automatically switching on: With the projection TV in standby mode, pressing the "Play ►" button on your VCR automatically switches the TV on.

⚠ If you have connected a decoder to a VCR which supports Smartlink feature, select the menu Further Programme Preset in the (Manual Set Up) menu and select **DECODER AV2** to each coded channel. For more details, please refer to the section "Using the Further Programme Preset function" of this instruction manual.

⚠ For more information on Smartlink, please refer to the Instruction Manual of your VCR.

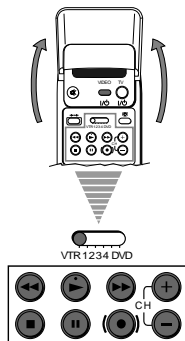


### Remote Control of other Sony Equipment

- ① Using the buttons underneath the cover of the remote control you can control other Sony equipment.

- 1 Open the cover of the Remote Control.
- 2 Set the selector VTR 1234 DVD according to the equipment you want to control:  
VTR 1 Beta VCR  
VTR 2 8 mm VCR  
VTR 3 VHS VCR  
VTR 4 Digital Video (DCR-VX 1000/9000 E, VHR-1000)  
DVD Digital Video Disk
- 3 Use the buttons underneath the cover on the remote control to operate the equipment.

- ⚠ If your equipment has a COMMAND MODE selector, set this selector to the same position as the VTR 1234 DVD selector on the projection TV Remote Control.
- If the equipment does not have a certain function, the corresponding button on the remote control will not work.

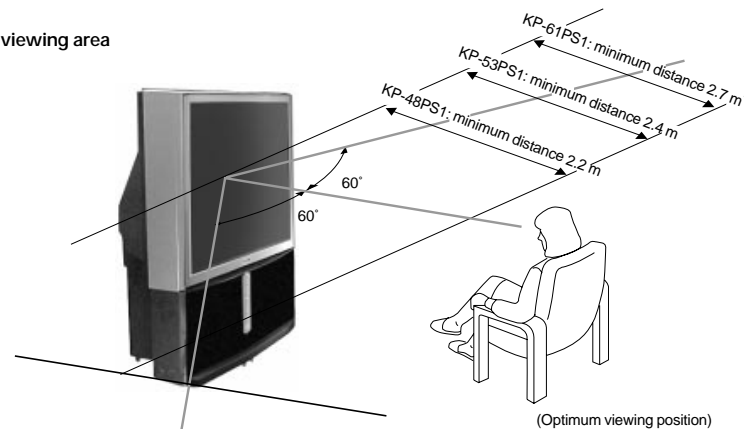


## Additional Information

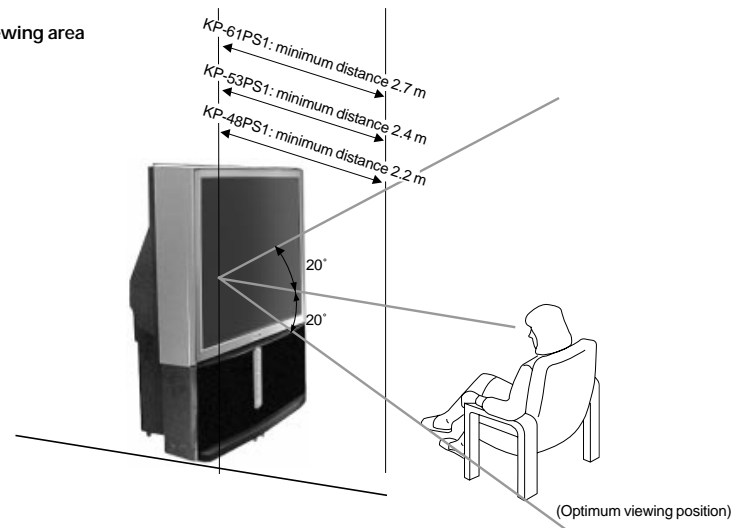
### Optimum Viewing Area

- ① For the best picture quality, try to position the projection TV so that you can view the screen from within the areas shown below.

#### Horizontal viewing area



#### Vertical viewing area



GB

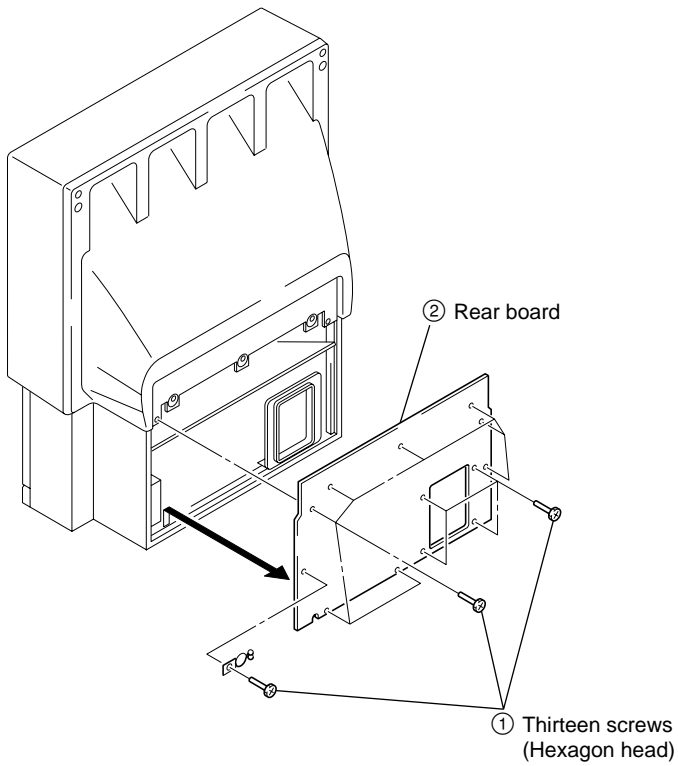
## SECTION 3 DISASSEMBLY

KP-48PS1/53PS1/61PS1  
48PS1K/53PS1K/61PS1K

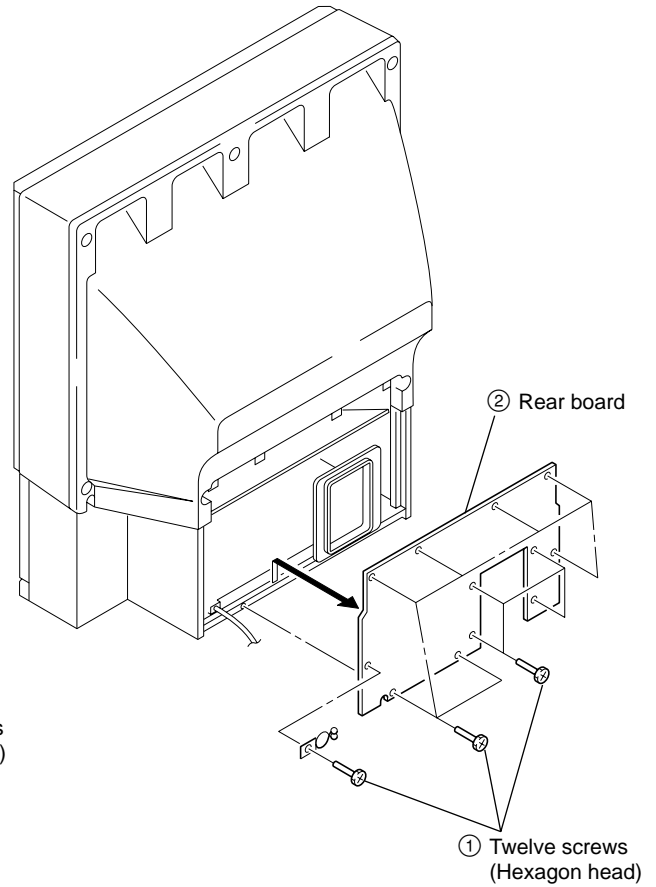
RM-892

### 3-1. REAR BOARD REMOVAL

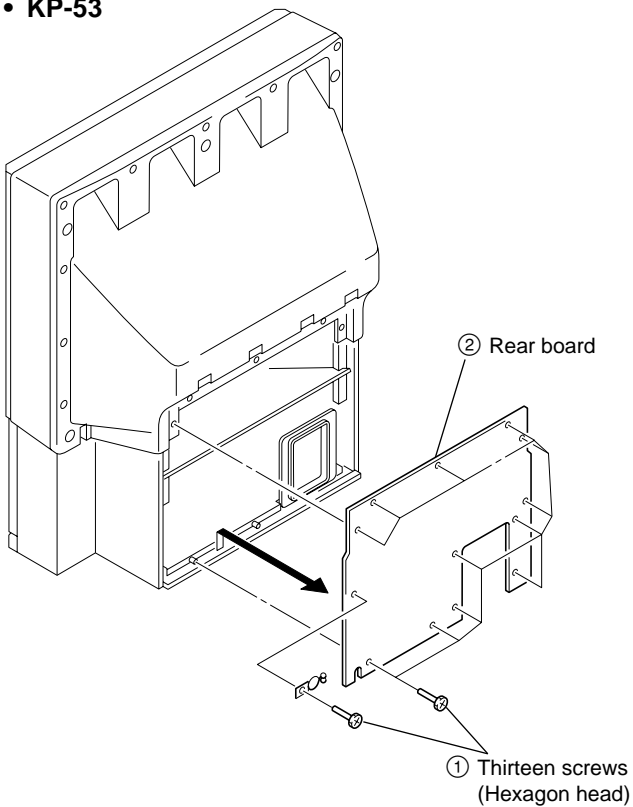
#### • KP-48



#### • KP-61

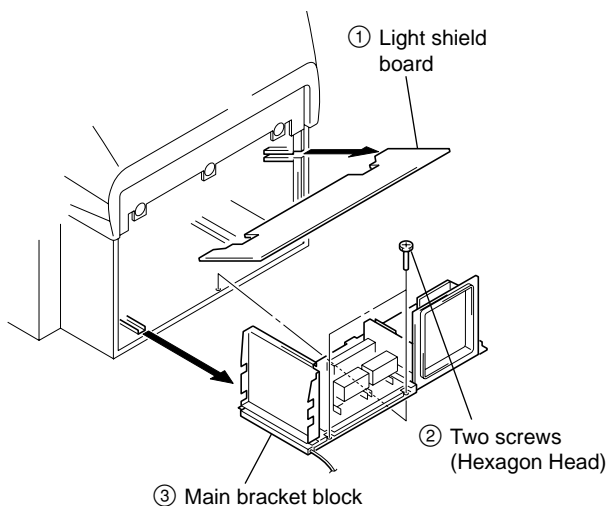


#### • KP-53



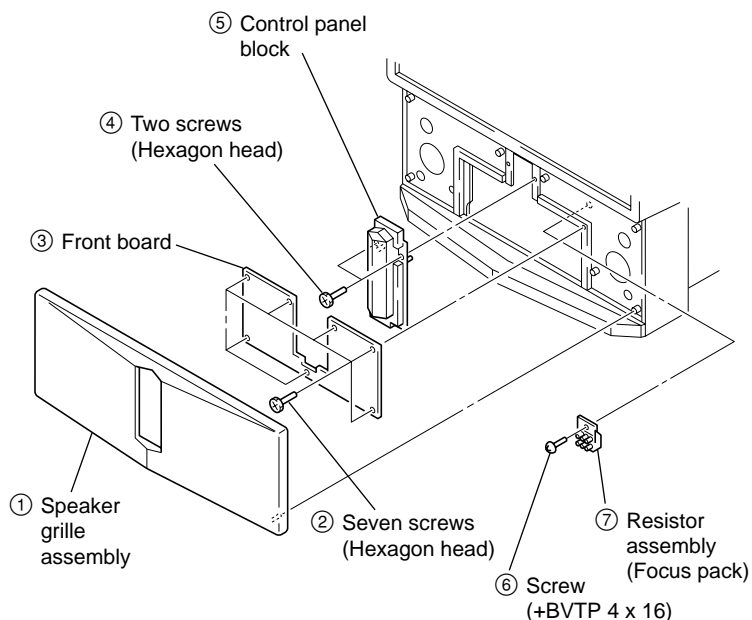
### 3-2. MAIN BRACKET BLOCK REMOVAL

- KP-48/53/61



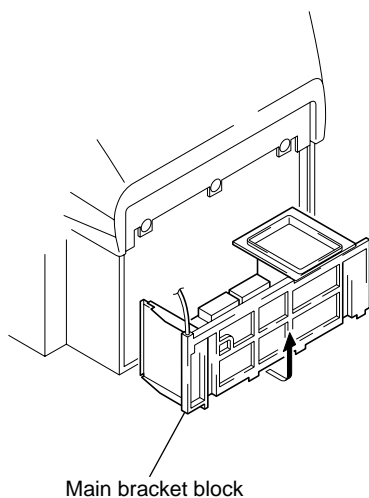
### 3-4. CONTROL PANEL BLOCK AND RESISTOR ASSEMBLY (FOCUS PACK) REMOVAL

- KP-48/53/61



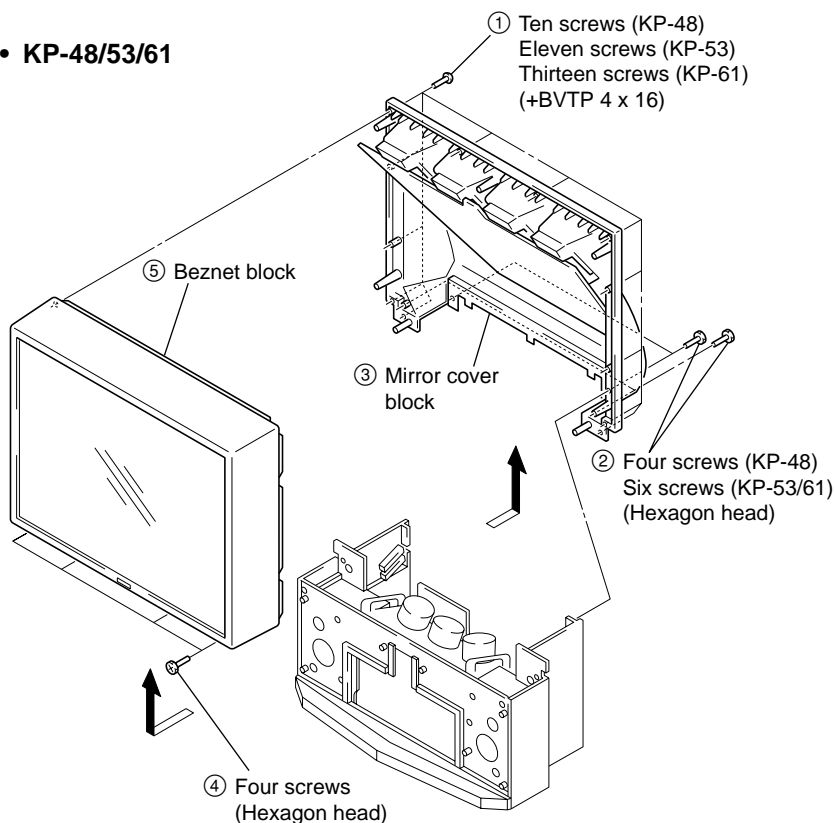
### 3-3. SERVICE POSITION

- KP-48/53/61



### 3-5. BEZNET BLOCK REMOVAL

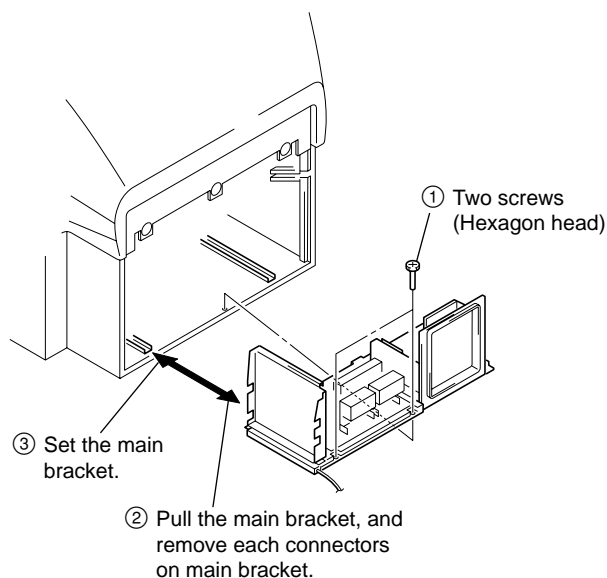
- KP-48/53/61



### 3-6. CHASSIS BLOCK REMOVAL

#### (1) MAIN BRACKET REMOVAL

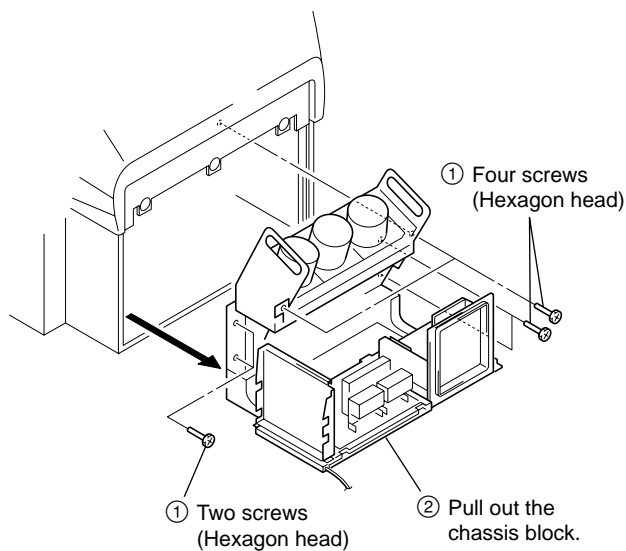
• KP-48/53/61



※ Pay particular attention to the wires of each Printed circuit boards when pulling out the main bracket.

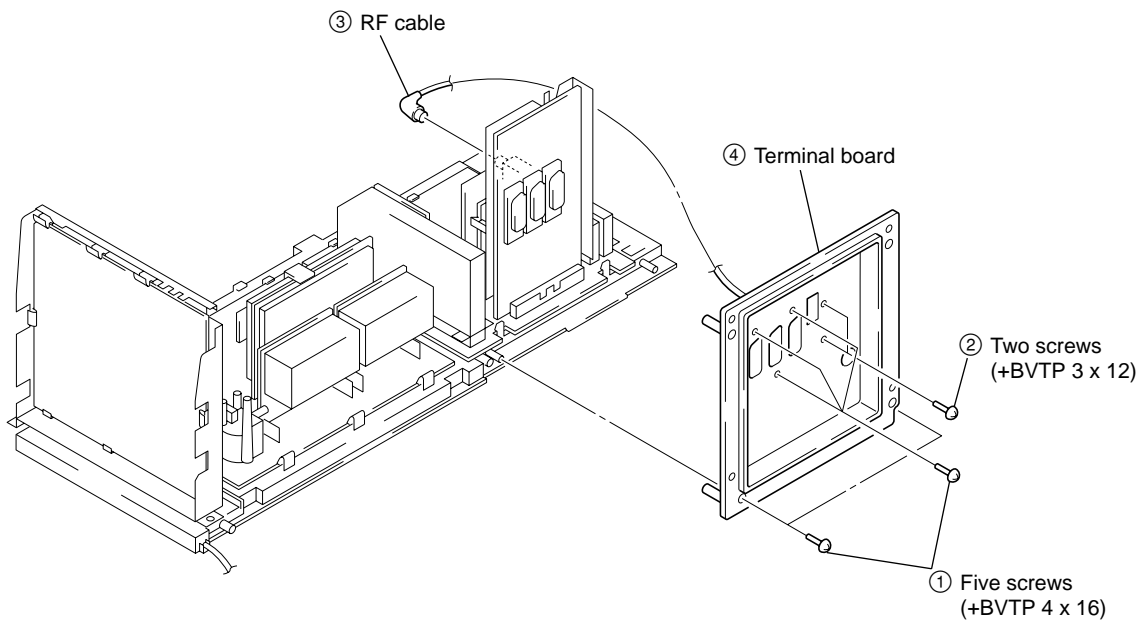
#### (2) CHASSIS BLOCK REMOVAL

• KP-48/53/61

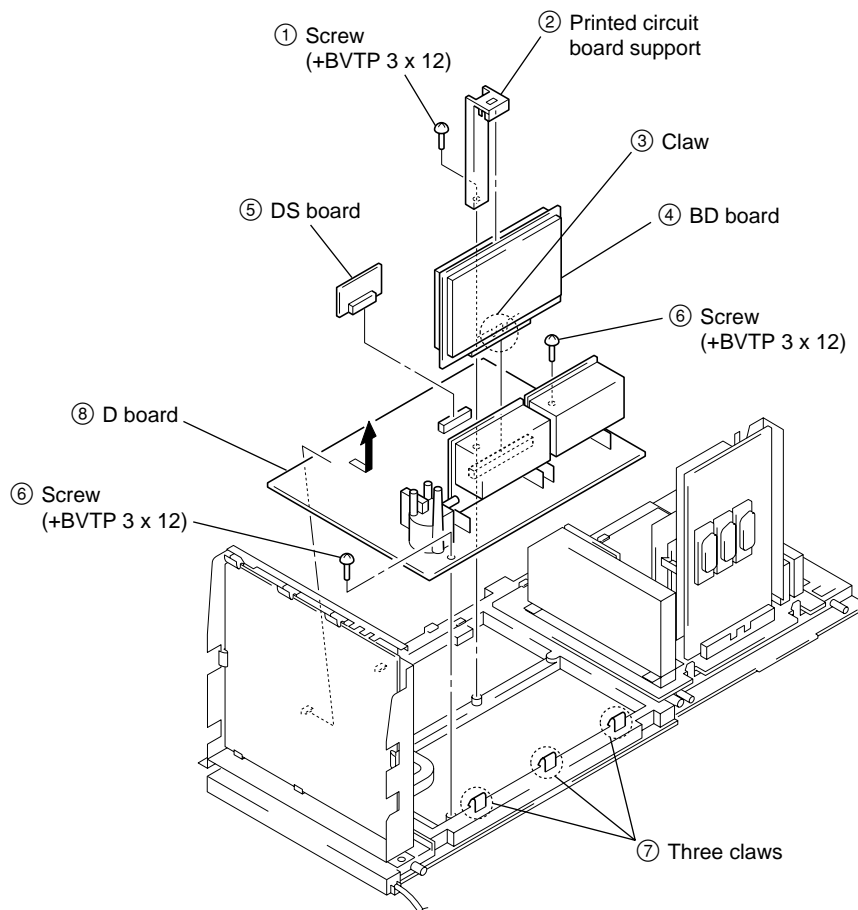


※ Pull out the chassis block by gripping the handles as shown in the diagram.  
At this time, pay particular attention to the components removed in (1).

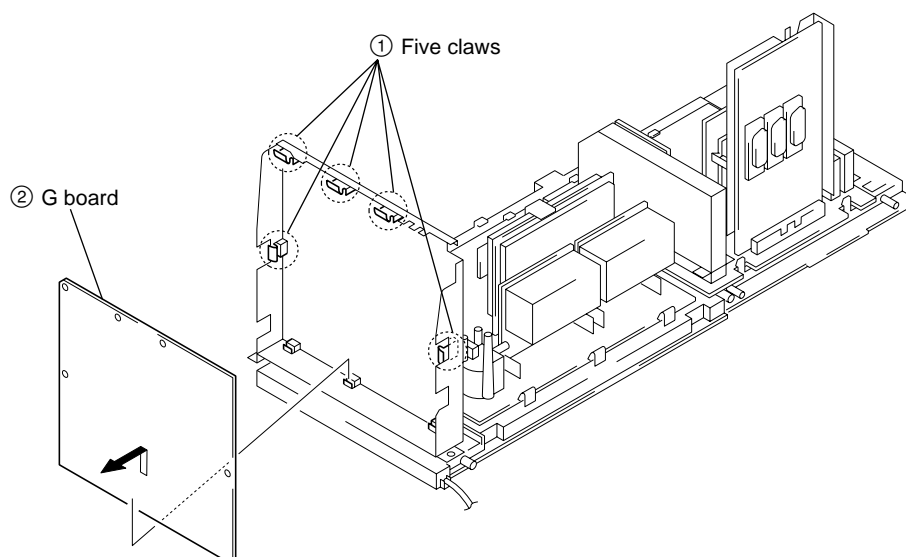
### 3-7. TERMINAL BOARD REMOVAL



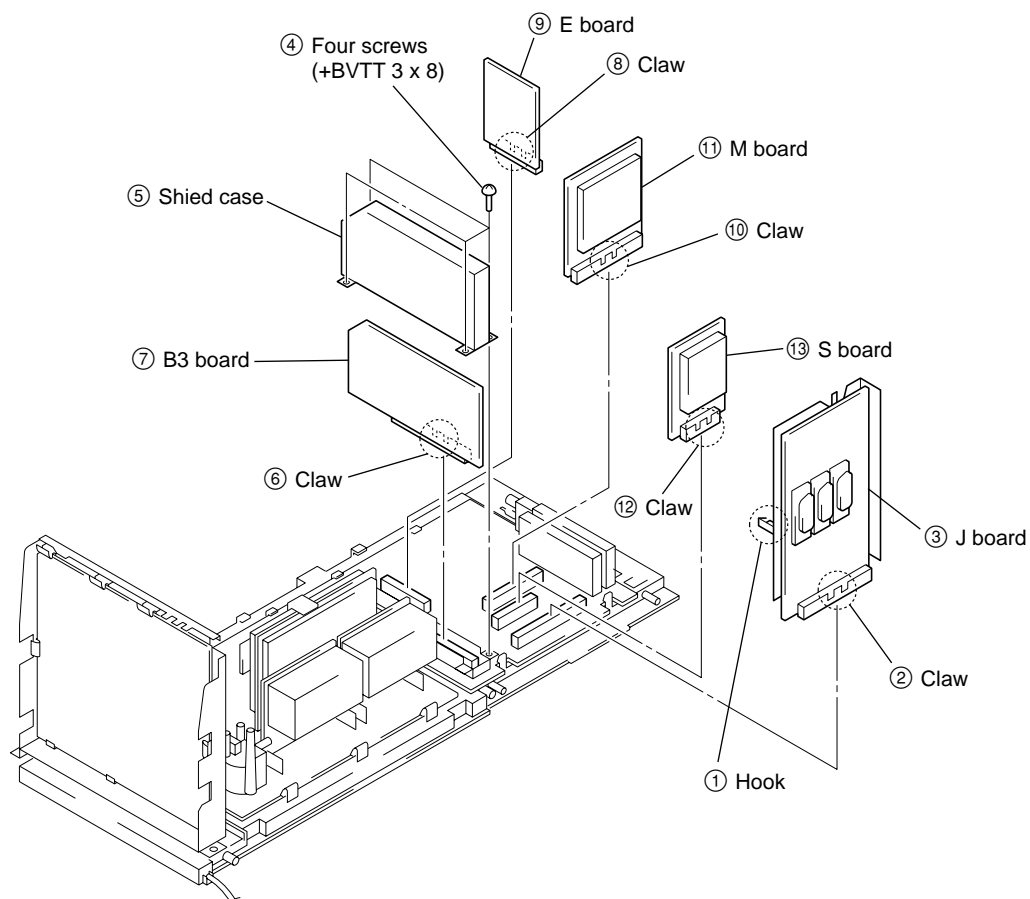
### 3-8. BD, DS, D BOARDS REMOVAL



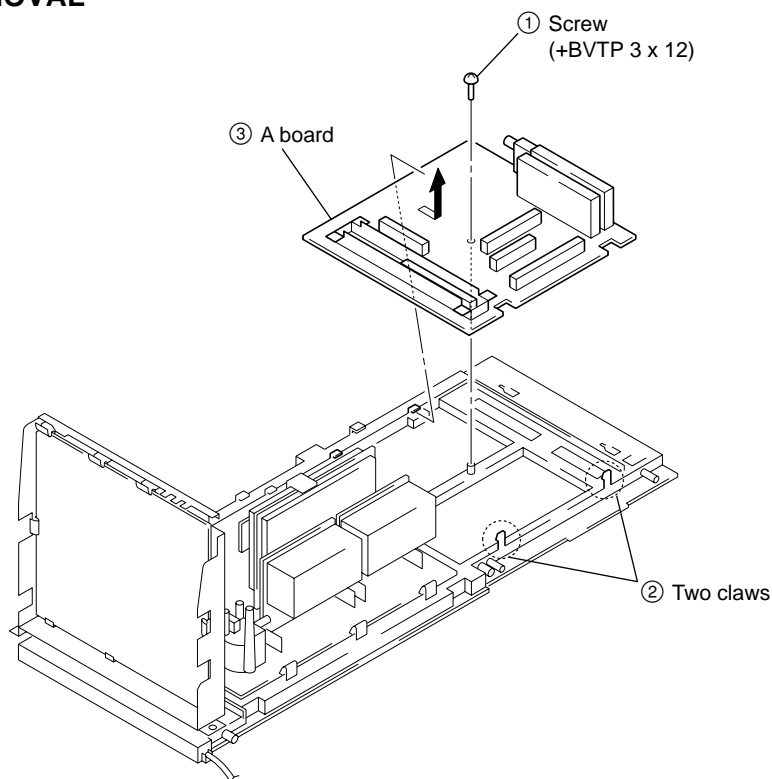
### 3-9. G BOARD REMOVAL



### 3-10. J, B3, E, M, S BOARDS REMOVAL

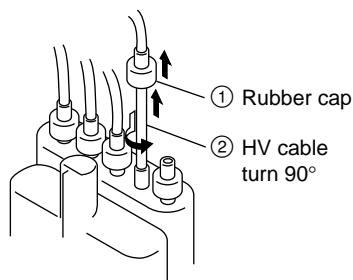


### 3-11. A BOARD REMOVAL

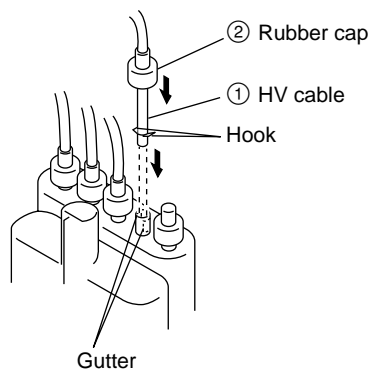


### 3-12. HIGH-VOLTAGE CABLE REMOVAL AND INSTALLATION

#### (1) Removal

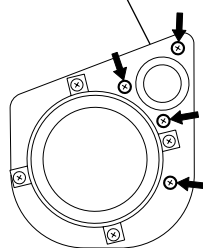


#### (2) Installation



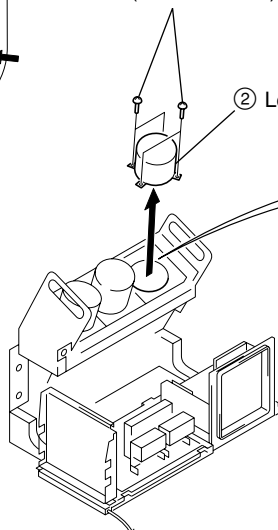
### 3-13. PICTURE TUBE REMOVAL

Removing the arrow-marked screw is strictly inhibited. If removed, it may cause liquid spill

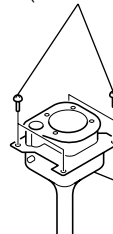


① Four screws  
(+BVTP 4 x 16)

② Lens



⑥ Four screws  
(+BVTP 4 x 16)



⑦ Picture tube

⑤ Deflection yoke

④ Neck assembly

③ CR board

## SECTION 4

### SET-UP ADJUSTMENTS

**KP-48PS1/53PS1/61PS1**  
**48PS1K/53PS1K/61PS1K**

RM-892

#### 4-1. SCREEN VOLTAGE ADJUSTMENT (ROUGH ALIGNMENT)

1. Receive the Monoscope signal.
2. Set 50% BRIGHTNESS and minimum PICTURE.
3. Turn the red VR on the focus pack all the way to the left and then gradually turn it to the right until the point where you can see the retrace line.
4. Next gradually turn it to the left to the position where the retrace line disappears.

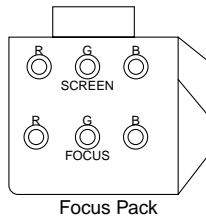


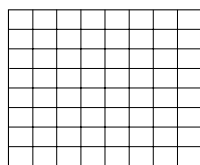
Fig. 4-1

#### 4-2. SCREEN (G2) ADJUSTMENT

1. Turn on the power of the set.
2. Select VIDEO1 mode without signals.
3. Supply DC 175  $\pm$ 0.5 V from external power supply to TP7103 (KR), TP7203 (KG) or TP7303 (KB) of CR board, CG board and CB board.
3. Adjust red, green and blue screen voltage to until retrace line disappears with screen VR on the focus pack.

#### 4-3. FOCUS ROUGH ADJUSTMENT

1. Loose the lens screw.
2. Set in the service mode. (Refer to SECTION 6.)
3. Place the caps on the red and blue lens so that only the green color is shown.
4. Press "MENU" twice on the commander and select "Device Register Setting"  $\rightarrow$  "Projector Engine", press "6" three times on the Commander to display the test signal (cross-hatch) on the screen.



Test signal

Fig. 4-2

5. Rotate the green lens and align to obtain the best lens focus at the center area.
6. Rotate the green focus VR on the focus pack and align to obtain the best electrical focus in the top right corner.
7. Perform the same alignment for red and blue lenses and electric focus.
8. Fix lens screw.

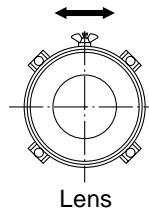


Fig. 4-3

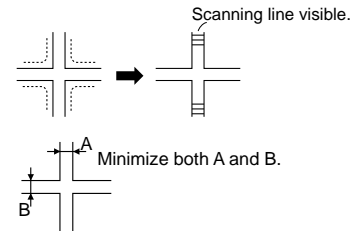
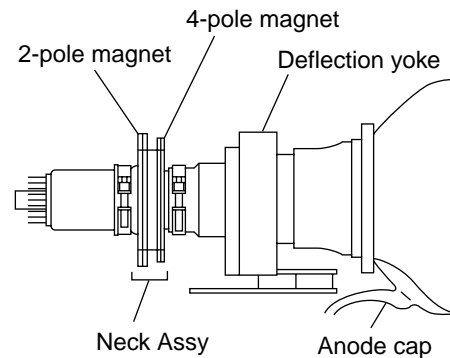


Fig. 4-4

#### 4-4. DEFLECTION YOKE TILT ADJUSTMENT

1. Receive the Monoscope signal.
2. Place the caps on the red and blue lens so that only the green color.
3. Loosen the deflection yoke setscrew and align the tilt of the Deflection yoke so that the bars at the center of the monoscope pattern are horizontal.
4. After aligning the deflection yoke, fasten it securely to the funnel-shaped portion (neck) of the CRT.
5. The tilt of the deflection yoke for red and blue is aligned the same as was done for green.



Make sure deflection yoke is touching CRT closely.

Fig. 4-5

#### 4-5. 2-POLE MAGNET ADJUSTMENT

1. Receive the Dot signal.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Turn the green focus VR on the focus pack to the right and set to over focus to enlarge the spot.
4. Now align the 2-Pole Magnet so that the enlarged spot is in the center of the just focus spot. (center of the dot doesn't move)
5. Align the green focus VR and set for just (precise) focus.
6. Perform the same alignment for red and blue.

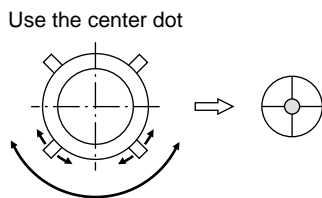


Fig. 4-6

#### 4-6. 4-POLE MAGNET ADJUSTMENT

1. Receive the Dot signal.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Turn the green focus VR on the focus pack to the left and set to under focus to enlarge the spot.
4. Now align the 4-Pole Magnet so that the enlarged spot becomes a perfect circle.
5. Perform the same alignment for red and blue.

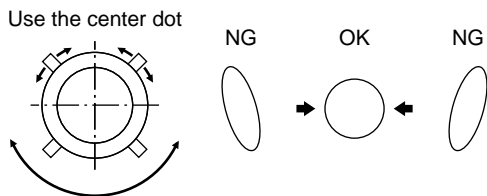


Fig. 4-7

#### 4-7. GREEN, RED AND BLUE FOCUS ADJUSTMENT

##### 4-7-1. Green, Red and Blue Lens Focus Adjustment

1. Receive the Monoscope signal.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Rotate the green lens and adjust to obtain the best lens focus at the center area.
4. Fix lens screw.
5. Repeat above process for red and blue.

##### 4-7-2. Green, Red and Blue Electrical Focus Adjustment

1. Receive the Monoscope signal.
2. Place the caps on the red and blue lens so that only the green color is shown.
3. Rotate the green focus VR on the focus pack and adjust to obtain the best electrical focus in the top right corner, taking care of center focus is not NG. obtain a compromise between center and corner focus.
4. Repeat above process for red and blue.

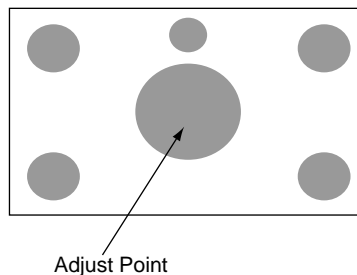


Fig. 4-8

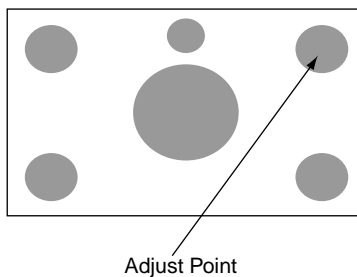


Fig. 4-9

## SECTION 5

### SAFETY RELATED ADJUSTMENT

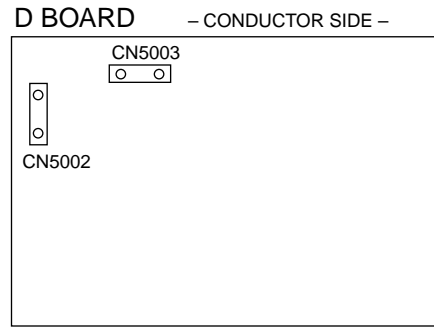
**KP-48PS1/53PS1/61PS1**  
**48PS1K/53PS1K/61PS1K**

RM-892

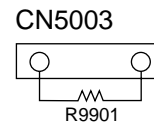
When replacing the following components marked with on the schematic diagram, always check hold-down voltage and if necessary re-adjust.

Part Replaced ()
R9901

Part Replaced ()
D Board C5123, C5127, C5130, C5143, D5115, D5204, Q5104, R5136, R5138, R5140, R9901, T5102, T5104, T5103 (FBT)



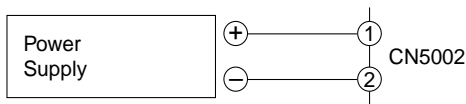
**Fig. 5-3**



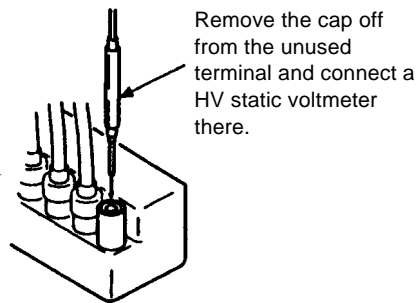
**Fig. 5-4**

#### 5-1. HV HOLD-DOWN ADJUSTMENT

1. Connect HV static voltmeter to HV Block.
2. Mount a resistor (R9901 : 43 k , 1/4 W, METAL FILM) at CN5003.
3. Remove CN5002 and connect External Power Supply to CN5002 ① pin (+135 V) and ② pin (GND).
4. Turn on the set.



**Fig. 5-1**



**Fig. 5-2**

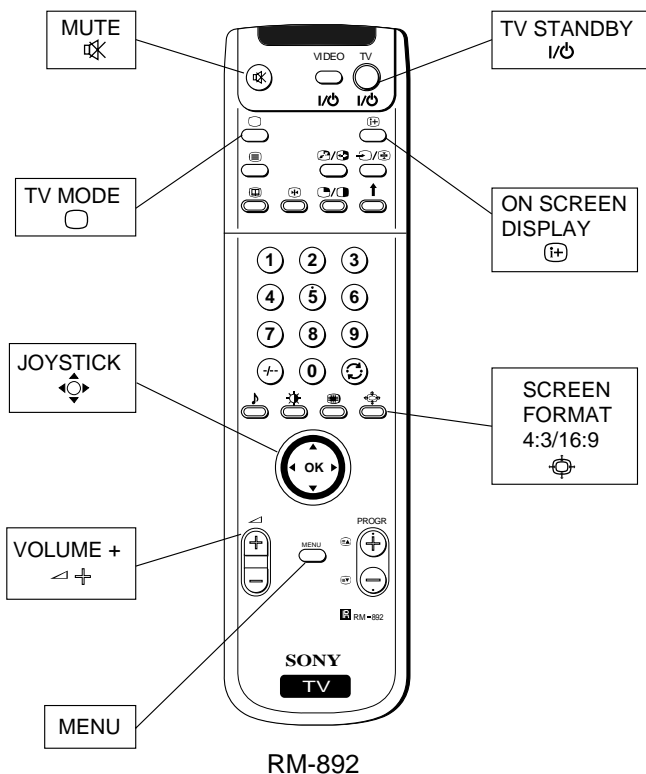
5. Receive the Dot signal and set PICTURE/BRIGHTNESS to minimum.
6. Slowly up the supply voltage from 0 V to 135 V until hold-down circuit works (picture disappear).
7. Read the HV static voltmeter of peak HV voltage.  
Spec : 33.7 ~ 35.3 kV
8. If Hold-down voltage is less than 33.7 kV then replace R9901 of 43 k with that of 39 k , and check if the voltage is within the spec.
9. If hold-down voltage is over than 35.3 kV then replace R9901 of 43 k with that of 47 k , and check if the voltage is within the spec.

## SECTION 6

### ELECTRICAL ADJUSTMENTS

#### 6-1. ADJUSTMENTS WITH COMMANDER

Service adjustment to this model can be performed with the supplied remote commander RM-892.



##### 6-1-1. How to Select Each Mode

The adjustment requires the following five modes:

- DRC100 (PAL) mode
- DRC50 (PAL) mode
- DRC100 (PAL/16 : 9) mode: V-compress mode
- DRC100 (NTSC) mode
- DRC50 (NTSC) mode

##### 1. Selection of Mode Between PAL and NTSC

PAL mode : Enter PAL signal.

NTSC mode: Enter NTSC signal. (VIDEO input only)

##### 2. Selection of Digital Mode

- 1) Press "MENU" button on the commander, and the menu screen will appear.
- 2) Press ► key on the joystick to enter the "Picture Adjustment" menu.
- 3) Press ▲ or ▼ key on the joystick to select "Digital Mode", and press ► key.
- 4) Press ▲ or ▼ key on the joystick to select "DRC50" or "DRC100", and press "◄◄ (OK)".
- 5) Press "MENU" button to return to normal screen.  
(In the TT mode, the menu is switched to the Service menu)

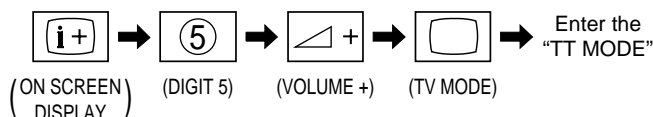
##### 3. Selection of Screen Format

The 16 : 9 mode is selected only when the DRC100 (PAL) mode is active.

- 1) Press "◄ (BLUE)" button on the commander.
- 2) Press ▲ or ▼ key on the joystick to select "4 : 3" or "16 : 9", and press "◄◄ (OK)" button. At this time, normal screen comes back. (In the TT mode, the menu is switched to the Service menu.)

##### 6-1-2. How to Enter TT Mode

1. Turn on the main power switch to place this set in standby mode. (LED will light in red.)
2. Press the buttons on commander as follows, and the TT mode will be selected.



"TT -" will appear in the top right corner of the screen.

Other status information will also be displayed.

3. Press "◄" + "◄" on the commander. If "◻ (TV MODE)" button is pressed, the set exits from the TT mode and returns to normal TV mode.

##### 6-1-3. How to Enter Service Menu

1. Select TT mode.
2. Press "MENU" button on the commander once, and normal menu screen will appear, or press it once more, and the following service menu screen will appear.

Service AE5(A)

Initialising  
Reset Devices  
Monitoring  
Device Register Setting  
Special Adjustment

Select : ▲ ▼      Next menu : ►

3. Following the screen, press ▲ or ▼ key on the joystick to select the desired item, and press ► key to enter the selected item.
4. Press ▲ or ▼ key on the joystick to change data of each item, and press "◄◄ (OK)" button to write changed data.  
(Except Projector Engine mode)
5. To return from each item, press ◄ key on the joystick. Or, to return to the TT mode, press the "MENU" button.  
(Except Projector Engine mode)

## 6-1-4. Screen Display for Service Menu

If each item of service menu is selected, the following screen is displayed.

### • Initialising

Initialising

Model Setting  
Destination Setting  
Basic Setting  
Feature Setting

Select : ▲▼      Next menu : ►

### • Initialising ➔ Model Setting

Model Setting

1 KV-29FX60  
2 KV-29FC60  
3 KV-29FS60  
4 KV-28FX60  
5 KV-32FX60  
6 KV-32FS60  
7 KV-28FC60  
8 KV-32FC60  
9 KV-28FC60Z  
10 KV-32FC60Z  
11 KV-28FS70  
12 KV-32FS70  
13 KV-36FS70  
14 KP-48PS1  
15 KP-53PS1  
16 KP-61PS1

Select : ▲▼      Last menu : ◀      Set Model : ►

### • Initialising ➔ Destination Setting

Destination Setting

Multi  
A  
B  
D  
E  
K  
R  
U

Select : ▲▼      Last menu : ◀      Set Dest. : ►

### • Initialising ➔ Basic Setting

Basic Setting

No	Descr.	Min	Max	Data
1	Sys. B/G	OFF	ON	ON
2	Sys. D/K	OFF	ON	ON
3	Sys. L	OFF	ON	ON
4	Sys. I (UK)	OFF	ON	ON
5	Sys. I (IRL)	OFF	ON	ON
6	TXT Nat. Option	1	4	3
7	Simple PAT	OFF	ON	OFF
8	16 : 9 CRT	OFF	ON	OFF
9	Sub-Woofer	OFF	ON	OFF
10	Auto Stand-By	OFF	ON	ON
11	Comb-Filter	OFF	ON	ON
12	Auto YC det	OFF	ON	ON
13	Auto Comb det	OFF	ON	ON
14	AV2 Available	OFF	ON	ON
15	AV3 Available	OFF	ON	ON
16	AV4 Available	OFF	ON	ON
17	AV3 Front & Rear	OFF	ON	OFF
18	SECAM Tape	OFF	ON	ON
19	AV1 Sound Mute	OFF	ON	OFF

Select : ▲▼      Last menu : ◀      Enter Item : ►

### • Initialising ➔ Feature Setting

Feature Setting

No	Descr.	Min	Max	Data
1	PAP	OFF	ON	ON
2	PAT	OFF	ON	ON
3	INDEX	OFF	ON	ON
4	EPG	OFF	ON	ON
5	Full EPG	OFF	ON	ON
6	Pict Boost Bypass	OFF	ON	OFF

Select : ▲▼      Last menu : ◀      Enter Item : ►

### • Reset Devices

Reset Devices

Backend  
Deflection  
Ext. Deflection  
Dynamic Convergence  
Colour Decoder 1  
Colour Decoder 2  
Audio/Video Switch  
MID-X  
External PLL MID-X  
Sound  
Picture Booster

Select : ▲▼      Last menu : ◀      Reset Dev. : ►

• **Monitoring**

Monitoring

Device Status Monitor  
Error Monitor  
Production Monitor  
NVM Monitor  
Format Monitor  
CNI Monitor

Select : ▲ ▼      Next menu : ►

• **Device Register Setting**

Device Register Setting

Backend  
Deflection  
Ext. Deflection  
Dynamic Convergence  
Colour Decoder 1  
Colour Decoder 2  
Audio/Video Switch  
MID-X  
External PLL MID-X  
Sound  
Projector Engine  
Picture Booster

Select : ▲ ▼      Next menu : ►

• **Device Register Setting ► Backend**

Backend

No	Descr.	Def.	Min	Max	Data
1	D-Col	OFF	OFF	ON	OFF
2	Contrast	44	0	63	43
3	Limit-Lvl	3	0	3	3
4	Hue	32	0	63	32
5	Colour	31	0	63	31
6	CTI-Level	2	0	3	2
7	Brightness	31	0	63	3
8	Gamma	3	0	3	3
9	Sharpness	44	0	63	44
10	R-Drive	41	0	63	41
11	G-Drive	41	0	63	41
12	B-Drive	41	0	63	41
13	Sub Bright	31	0	63	31
14	VM-Level	2	0	3	2
15	R-Cutoff	31	0	63	31
16	Pre/Over	2	0	3	3
17	G-Cutoff	31	0	63	31
18	DPIC-Level	1	0	3	1
19	B-Cutoff	31	0	63	31
20	DC-Tran.	0	0	3	0
21	Sub-Cont.	7	0	15	8
22	LRGB2-Lvl	8	0	15	8
23	P-Abl	15	0	15	15
24	Sharp. F0	ON	OFF	ON	ON
25	CB-Offset1	7	0	15	7
26	CR-Offset1	7	0	15	7
27	CB-Offset2	7	0	15	7
28	CR-Offset2	7	0	15	7
29	Sub Colour	0	-8	8	0

Select : ▲ ▼      Last menu : ◀      Enter Item : ▶

• **Device Register Setting ► Deflection**

Note: Prior to starting Main Deflection Adjustment, the value displayed here (shaded portion) must be set to the Deflection data.

Deflection

No	Descr.	Def.	Min	Max	Data
1	V-Size	31	0	63	50
2	V-Position	31	0	63	32
3	V-Comp	1	0	3	0
4	V-Linear	7	0	15	7
5	S-Corr	7	0	15	7
6	H-Size	31	0	63	38
7	Ew-Dc	OFF	OFF	ON	OFF
8	Pin-Amp	31	0	63	20
9	Up-CPin	31	0	63	32
10	M-Pin	2	0	3	2
11	Lo-CPin	31	0	63	32
12	Trapezium	7	0	15	7
13	H-Position	31	0	63	30
14	AFC-Bow	7	0	15	7
15	AFC-Angle	7	0	15	7
16	Up-Vlin	0	0	15	0
17	Lo-Vlin	0	0	15	0
18	MPIP PAmp	-3	-10	10	0
19	MPIP UCPin	0	-10	10	0
20	MPIP LCPin	0	-10	10	0
21	MPIP Trap	0	-10	10	0
22	EPG PAmp	2	-10	10	0
23	EPG UCPin	2	-10	10	0
24	EPG LCPin	2	-10	10	0
25	EPG Trap	0	-10	10	0

Select : ▲ ▼      Last menu : ◀      Enter Item : ▶

• **Device Register Setting ► EXT. Deflection**

EXT. Deflection

No	Descr.	Def.	Min	Max	Data
1	Linearity	127	0	255	127
2	H Centre	31	0	63	31
3	H Trap	31	0	63	31
4	Rotation	0	0	255	0
5	FocusPhase	127	0	255	127

Select : ▲ ▼      Last menu : ◀      Enter Item : ▶

• Device Register Setting ➔ Dynamic Convergence

Dynamic Convergence					
No	Descr.	Def.	Min	Max	Data
1	Range	63	0	63	63
2	H stat	33	0	63	33
3	H amp l	37	0	63	37
4	H amp r	36	0	63	36
5	Up Y	31	0	63	31
6	Low Y	33	0	63	33
7	Y up l	30	0	63	30
8	Y up r	30	0	63	30
9	Y low l	31	0	63	31
10	Y low r	30	0	63	30
11	Mbow up l	31	0	63	31
12	Mbow up r	32	0	63	32
13	Mbow low l	32	0	63	32
14	Mbow low r	32	0	63	32
15	V stat	32	0	63	32
16	TCorPCtrl	OFF	OFF	ON	OFF
17	TopCorPin	31	0	63	31
18	BCorPCtrl	OFF	OFF	ON	OFF
19	BotCorPin	43	0	63	43

Select : ▲▼ Last menu : ◀ Enter Item : ▶

• Device Register Setting ➔ Colour Decoder 2

Colour Decoder 2					
No	Descr.	Def.	Min	Max	Data
1	TINT	31	0	63	31
2	SUB COLOUR	7	0	15	7
3	SUB CONTR	7	0	15	7
4	SHARP GAIN	8	0	15	8
5	Y-OUT LEV.	35	0	63	35
6	C-OUT LEV.	45	0	63	45
7	Y-DL	8	0	10	8
8	Cr OFF. 1	7	0	15	7
9	Cb OFF. 1	7	0	15	7
10	Cr OFF. 2	7	0	15	7
11	Cb OFF. 2	7	0	15	7
12	V CD FREQ	3	0	7	3
13	V CD MODE	0	0	3	0
14	MVM	OFF	OFF	ON	OFF
15	S R-Y ADJ	7	0	15	7
16	S B-Y ADJ	2	0	15	5
17	BELL/HPF	2	0	3	2
18	BELL F0	OFF	OFF	ON	OFF
19	S GP	0	0	3	0

Select : ▲▼ Last menu : ◀ Enter Item : ▶

• Device Register Setting ➔ Colour Decoder 1

Colour Decoder 1					
No	Descr.	Def.	Min	Max	Data
1	TINT	31	0	63	31
2	SUB COLOUR	7	0	15	7
3	SUB CONTR	7	0	15	7
4	SHARP GAIN	8	0	15	8
5	Y-OUT LEV.	35	0	63	35
6	C-OUT LEV.	45	0	63	45
7	Y-DL	8	0	10	8
8	Cr OFF. 1	7	0	15	7
9	Cb OFF. 1	7	0	15	7
10	Cr OFF. 2	7	0	15	7
11	Cb OFF. 2	7	0	15	7
12	V CD FREQ	3	0	7	3
13	V CD MODE	0	0	3	0
14	MVM	OFF	OFF	ON	OFF
15	S R-Y ADJ	7	0	15	7
16	S B-Y ADJ	2	0	15	5
17	BELL/HPF	2	0	3	2
18	BELL F0	OFF	OFF	ON	OFF
19	S GP	0	0	3	0

Select : ▲▼ Last menu : ◀ Enter Item : ▶

• Device Register Setting ➔ MID-X

MID-X					
No	Descr.	Def.	Min	Max	Data
1	M H POS	0	-16	16	0
2	S H POS	0	-8	8	0
3	D YS SEL	1	0	3	1
4	D YS DELAY	7	0	7	7
5	Text Sharp	OFF	OFF	ON	OFF

Select : ▲▼ Last menu : ◀ Enter Item : ▶

• Device Register Setting ➔ External PLL MID-X

External PLL MID-X					
No	Descr.	Def.	Min	Max	Data
1	VCO7-0PAL	184	0	255	184
2	VCO7-0NTSC	172	0	255	172
3	VCO11-8	6	0	15	6
4	DIV1, 2, 4, 8	2	0	3	2
5	Fine Delay	0	0	63	0
6	Coar. Delay	0	0	3	0
7	Ch. Pump	0	0	3	0
8	PD Pol.	ON	OFF	ON	ON
9	DSync Wdth	3	0	3	3
10	DSync Del	OFF	OFF	ON	OFF
11	Sync Pol	ON	OFF	ON	ON
12	DSync Pol	ON	OFF	ON	ON
13	Clk En	ON	OFF	ON	ON
14	NClk En	OFF	OFF	ON	OFF
15	Clk/2 En	OFF	OFF	ON	OFF
16	NClk/2 En	OFF	OFF	ON	OFF
17	DSync En	ON	OFF	ON	ON
18	Unlock En	OFF	OFF	ON	OFF
19	VCO Bypass	ON	OFF	ON	ON
20	Synth Pwr	ON	OFF	ON	ON
21	Rdout Pwr	OFF	OFF	ON	OFF
22	DIVOUT En	ON	OFF	ON	ON
23	DSync Byp	OFF	OFF	ON	OFF
24	DSync Hold	OFF	OFF	ON	OFF

Select : ▲▼ Last menu : ◀ Enter Item : ▶

• Device Register Setting ➔ Picture Booster

Picture Booster					
No	Descr.	Def.	Min	Max	Data
1	DEM	OFF	OFF	ON	OFF

Select : ▲▼ Last menu : ◀ Enter Item : ▶

• Special Adjustment

Special Adjustment				
No	Descr.	Min	Max	Data
1	RGB Level	0	7	0
2	RGB Gain	0	31	6
3	RGB PAT Level	0	7	0
4	RGB PAT Gain	0	31	12
5	RGB H-Position	-10	10	0
6	Extra FW	0	255	255
7	EPG ChkS Check	OFF	ON	ON
8	Slicer High	OFF	ON	ON
9	FCW Wide	OFF	ON	OFF
10	High Pll	OFF	ON	OF
11	Panic Offset	0	2	2
12	Wide Mute	OFF	ON	ON

Select : ▲▼

Last menu : ◀

Enter Item : ▶

• Device Register Setting ➔ Sound

Sound					
No	Descr.	Def.	Min	Max	Data
1	Carr.-Mute	ON	OFF	ON	ON
2	SCART1 Vol	79	0	127	79
3	SCART2 Vol	79	0	127	79
4	SCART-Pr.	27	0	127	27
5	I2S1-Pr.	16	0	127	16
6	I2S2-Pr.	16	0	127	16
7	FM Pr.	27	0	127	27
8	BG Nic. Pr.	53	0	127	53
9	L Nic. Pr.	59	0	127	59
10	DK Nic.Pr.	53	0	127	53
11	I Nic. Pr.	97	0	127	97
12	Irl NicPr.	97	0	127	97
13	SubW. Vol.	0	-127	0	0
14	Bass Offs	0	-3	3	0
15	TrebleOffs	2	-3	3	2
16	Loudn. Offs	0	0	9	0
17	HP-VolOffs	-2	-5	5	-2
18	M-S Limit	30	-128	127	30
19	M-B Limit	-30	-128	127	-30
20	S-M Limit	12	-128	127	12
21	S-B Limit	-20	-128	127	-20
22	B-M Limit	-12	-128	127	-12
23	B-S Limit	20	-128	127	20
24	Err. Max	40	0	255	40
25	Err. Min	18	0	255	18
26	Vol.Offset	-3	-6	0	-3

Select : ▲▼ Last menu : ◀ Enter Item : ▶

### 6-1-5. Service List (Projector Engine)    : Fixed data

Note : Prior to starting Main Deflection Adjustment, the data (GRN, BLU, RED) must be set to the standard values of DRC100 (PAL) mode.

Item Number	Adjustment Item	Data Range	Standard Data					Name/Description
			DRC100 (PAL)	DRC50 (PAL)	DRC100 (NTSC)	DRC50 (NTSC)	DRC100 (PAL/16 : 9)	
00	FDIS	00,01	00					SELECT REGI DATA DISPLAY OF FINE ADJ
01	OSDH	01 ~ 255	32	32	32	32	32	PJED SERVICE MENU H POSITION
02	OSDV	01 ~ 255	25					PJED SERVICE MENU V POSITION
03	FVST	00 ~ 255	33	54	33	54	33	LINE NUMBER OF FINE ADJUST START
04	V1ST	00 ~ 255	00	00	00	00	00	V1 START DATA
05	V1CU	00 ~ 255	50	25	58	29	50	V1 COUNT UP DATA
06	COHP	00 ~ 255	253	253	253	253	253	H-PHASE OF ROUGH ADJ
07	FIHP	00 ~ 255	203	203	203	203	203	H-PHASE OF FINE ADJ
08	TPHP	00 ~ 255	51	51	51	51	51	H-PHASE OF TEST PATTERN
09	DFHP	00 ~ 255	00	00	00	00	00	H-PHASE OF DYNAMIC FOCUS
10	DFHG	-128 ~ 127	-80	-80	-80	-80	-80	H-2 GAIN OF DYNAMIC FOCUS
11	DFVG	-128 ~ 127	-30	-30	-30	-30	-30	V-2 GAIN OF DYNAMIC FOCUS
12	PWM1	00 ~ 255	00					PWM1
13	PWM2	00 ~ 255	32					H-PHASE OF AUTO REGI TEST PATTERN
14	HBLD	00 ~ 255	238					H-PHASE OF RETURNED BLUE V LINE
15	HBLW	00 ~ 63	23					PULSE WIDTH OF RETURNED BLUE V LINE
16	BLKP	00 ~ 255	27					START BLANK PULSE
17	COGV	-128 ~ 127	(*1)					GREEN V CENT OFFSET DATA OF AUTO REGI
18	CORV	-128 ~ 127	(*1)					RED V CENT OFFSET DATA OF AUTO REGI
19	COBV	-128 ~ 127	(*1)					BLUE V CENT OFFSET DATA OF AUTO REGI
20	COGH	-128 ~ 127	(*1)					GREEN H CENT OFFSET DATA OF AUTO REGI
21	CORH	-128 ~ 127	(*1)					RED H CENT OFFSET DATA OF AUTO REGI
22	COBH	-128 ~ 127	(*1)					BULE H CENT OFFSET DATA OF AUTO REGI
23	SOGV	-128 ~ 127	(*1)					GREEN V SKEW OFFSET DATA OF AUTO REGI
24	SORV	-128 ~ 127	(*1)					RED V SKEW OFFSET DATA OF AUTO REGI
25	SOBV	-128 ~ 127	(*1)					BLUE V SKEW OFFSET DATA OF AUTO REGI
26	SOGH	-128 ~ 127	(*1)					GREEN H SKEW OFFSET DATA OF AUTO REGI
27	SORH	-128 ~ 127	(*1)					RED H SKEW OFFSET DATA OF AUTO REGI
28	SOBH	-128 ~ 127	(*1)					BLUE H SKEW OFFSET DATA OF AUTO REGI
29	ERR	FIXED	00					AUTO REGI ERROR CODE
30	ADTM	00 ~ 255	144					TIMING TO GET A/D DATA OF AUTO REGI
31 *2	VUP	01 ~ 255	03	03	03	03	01	AUTO REGI PATTERN UPPER V POSITION
32 *2	VMID	01 ~ 255	130	138	103	112	130	AUTO REGI PATTERN MIDDLE V POSITION
33 *2	VLOW	01 ~ 255	255	270	206	224	255	AUTO REGI PATTERN LOWER V POSITION
34 *2	HPR	01 ~ 510	01	01	01	01	01	AUTO REGI PATTERN H POSITION
35	SFTF	00,01	00					SHIFT ENABLE 00 : DISABLE 01 : ENABLE
36	SFTE	00,01	00					SHIFT FAST 00 : NORMAL 01 : QUICK
37	ACTL	00 ~ 255	00					LOWER BYTE OF COUNTER VALUE
38	ACTH	00 ~ 255	00					HIGHER BYTE OF COUNTER VALUE
GRN	CENT *3	-512 ~ 511	000/000					GREEN H/V CENT (H CENT *4)
	SKEW *3	-512 ~ 511	000/000					GREEN H/V SKEW (H SKEW *4)
	SIZE *3	-512 ~ 511	-70/-175				-70/-150	GREEN H/V SIZE (H/V SIZE *4)
	LIN *3	-512 ~ 511	xxxx/xxxx					GREEN H/V LIN
	KEY *3	-512 ~ 511	xxxx/xxxx					GREEN H/V KEY
BLU	PIN *3	-512 ~ 511	xxxx/271					GREEN H/V PIN
	CENT *3	-512 ~ 511	000/000					BLUE H/V CENT
	SKEW *3	-512 ~ 511	080/-130					BLUE H/V SKEW
	SIZE *3	-512 ~ 511	-20/-175				-20/-150	BLUE H/V SIZE
	LIN *3	-512 ~ 511	-150/xxxx					BLUE H/V LIN
RED	KEY *3	-512 ~ 511	xxxx/-100					BLUE H/V KEY
	PIN *3	-512 ~ 511	xxxx/270				xxxx/202	BLUE H/V PIN
	CENT *3	-512 ~ 511	000/000					RED H/V CENT
	SKEW *3	-512 ~ 511	080/-130					RED H/V SKEW
	SIZE *3	-512 ~ 511	-61/-175				-61/-150	RED H/V SIZE
RED	LIN *3	-512 ~ 511	150/xxxx					RED H/V LIN
	KEY *3	-512 ~ 511	xxxx/100					RED H/V KEY
	PIN *3	-512 ~ 511	xxxx/270				xxxx/202	RED H/V PIN

\*1: Set correctly by the automatic registration adjustment.

\*3: Prior to starting Main Deflection Adjustment, the data must be set to the standard values of DRC100 (PAL) mode.

\*2 : It can be adjust if automatic registration adjustment doesn't work.

\*4 : It can be adjust Green a little.


xxxx: Cannot change.

## 6-2. REGISTRATION ADJUSTMENT


### 6-2-1. Data Setting Before Adjustment

Note: Prior to starting Registration Adjustment, the data must be set by the following method. Negligence of data setting increases the system load, causing a trouble.

#### 1. Main Deflection Setting

- 1) Enter the Service menu, and select “Device Register Setting” → “Deflection”.
- 2) Press ▲ or ▼ key on the joystick to set the data of each deflection item to the value (shaded portion) displayed on page 32, and press the “ (OK)” button.

#### 2. Sub Deflection Setting

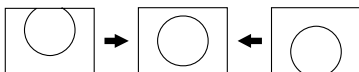
- 1) Set DRC100 (PAL) mode.
- 2) Enter the Service menu, and select “Device Register Setting” → “Projector Engine”.
- 3) Press “①” or “④” button on the commander to select the item, and press “③” button to change the adjustment colors, then set the data of GRN, BLU, and RED items to the values of DRC100 (PAL) mode, following “**6-1-5. Service List**” on page 35. (For an operation method, see “**6-2-3. Operation Method for Projector Engine Mode**”)
- 4) After a setting of each item finished, press “ (MUTE)” + “⑨” buttons on the commander to write the changed data.
- 5) Press “MENU” button on the commander to return to the Service menu.

### 6-2-2. Main Deflection Adjustment

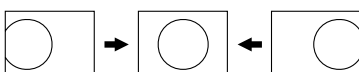
The data values are same in all five modes, and therefore the adjustment for the DRC100 (PAL) mode only is performed here.

1. Place the caps on the red and blue lenses so that only the green color is displayed.
2. Enter the PAL SPCB signal to set the DRC100 (PAL) mode.
3. Enter the Service menu, and select “Device Register Setting” → “Deflection”.
4. Adjust “2 V-Position” and “13 H-Position” so that the picture is displayed in the center of screen.

#### 2 V-Position



#### 13 H-Position



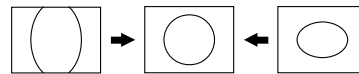
5. Adjust “1 V-Size” and “6 H-Size” so that the picture size is within the specification.

#### SPEC

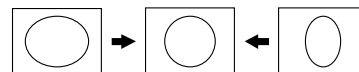
Overscan Spec. = 7.5%

Input Signal	H SIZE	V SIZE
PAL SPCB	16.6 ± 0.15 sq.	12.5 ± 0.15 sq.

#### 1 V-Size

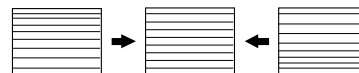


#### 6 H-Size



6. Adjust the following items so as to attain the optimum picture.

#### 4 V-Linear



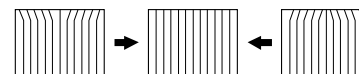
#### 5 S-Corr



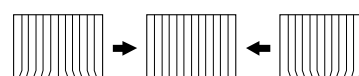
#### 8 Pin Amp



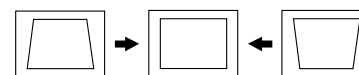
#### 9 Up-CPin



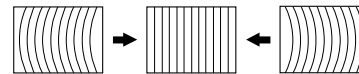
#### 11 Lo-CPin



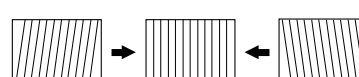
#### 12 Trapezium



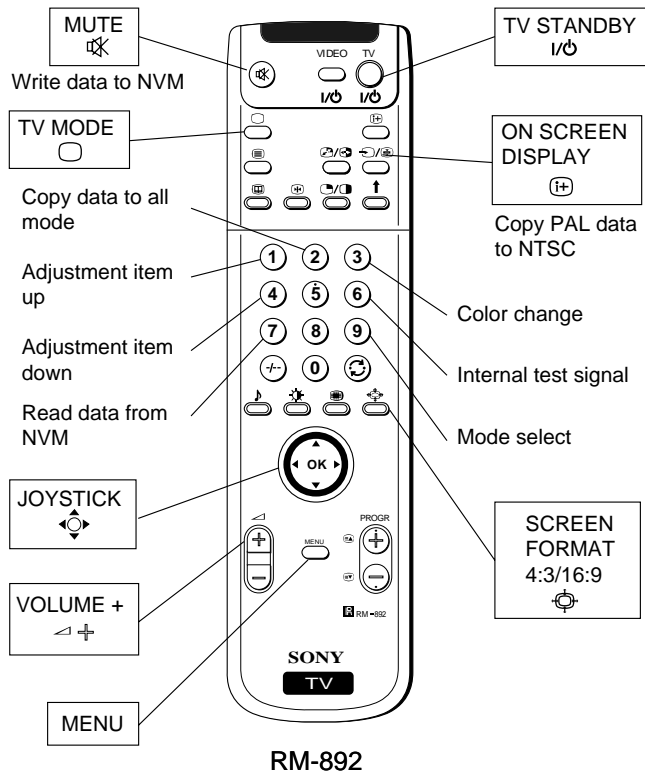
#### 14 AFC-Bow



#### 15 AFC-Angle



### 6-2-3. Operation Method for Projector Engine Mode



RM-892

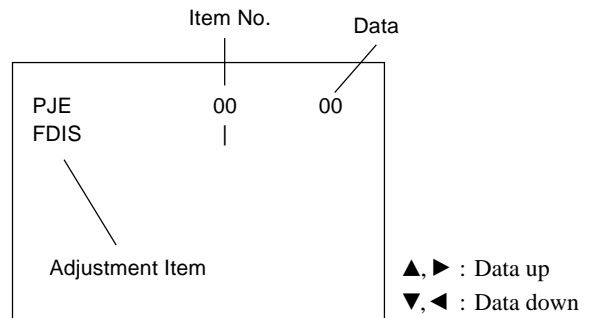
#### 1. Functions of Keys on Commander

- ① : Changes adjustment item. (item No. moves up)  
: Marker moves clockwise from center to outside. (in fine adjustment mode)
- ④ : Changes adjustment item. (item No. moves down)  
: Marker moves counterclockwise from outside to center. (in fine adjustment mode)
- ▲, ▼, ◀, ▶ : Changes data value. (up or down)  
: Marker moves up, down, or to the left or right. (in fine adjustment mode)
- ③ : Changes adjustment color. (except item No. 00~38) GRN → BLU → RED
- ⑥ : Displays or changes internal test signals.  
: crosshatch + external signal → dot + external signal → crosshatch only → dot only → off
- ⑨ : Switches adjustment mode.  
: rough adjustment mode → fine adjustment mode
- ◀▶ (OK): Switches marker moving method. (in fine adjustment mode)  
: joystick (▲, ▼, ◀, ▶) keys → ① and ④ buttons
- MUTE+⑩ : Writes data to NVM.
- ⑦+⑩ : Reads data from NVM.

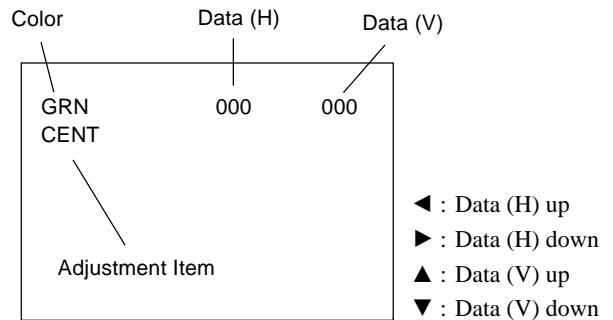
- ②+⑩ : Copies data of DRC100 (PAL) mode to all other modes.
- (i+) (OSD)+⑩ : Copies data of PAL mode to the NTSC mode.  
DRC100 (PAL) → DRC100 (NTSC)  
DRC50 (PAL) → DRC50 (NTSC)

#### 2. How to Enter Projector Engine Mode

- 1) Enter the Service menu, and select "Device Register Setting" → "Projector Engine".
- 2) Press "①" or "④" button on the commander to select the item, and press ▲, ▼, ◀, ▶ key on the joystick to change the data.



- 3) Select "GRN CENT" and confirm that the data in horizontal direction and vertical direction are both 000. When BLU or RED is displayed, press "③" button on the commander to change the adjustment color in the order of GRN → BLU → RED.
- 4) In the GRN, BLU, or RED mode, ▲, ▼ keys on the joystick can change the data in vertical direction, or ◀, ▶ keys in horizontal direction.

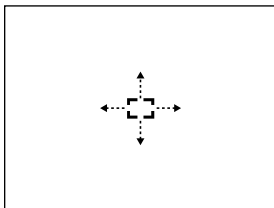


- 5) Before returning to the Service menu, press "MUTE" + "⑩" buttons on the commander to write the data. (Omission of this operation causes the set data to be returned to the data before adjustment)
- 6) Press "MENU" button on the commander to return to the Service menu.

### 3. How to Enter Fine Adjustment Mode (in GRN, BLU, or RED Mode)

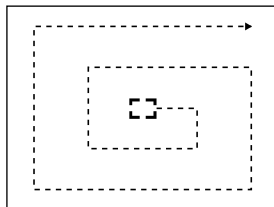
- 1) Select the Projector Engine mode.
- 2) Select FDIS so that the data at each position can be displayed in the fine adjustment mode, and set the data to "01".
- 3) Press "9" button on the commander, and the fine adjustment mode will be active where a green marker appears in the center of screen (in the case of GRN mode).
- 4) Press "OK" button, and the marker color will be switched between green (GRN mode) and white alternately.
- 5) Use "1" or "4" button on the commander, or the joystick to move the marker to the position to be adjusted, where fine adjustment can be made.

- When marker color is white.  
(in this case, fine adjustment is disabled)



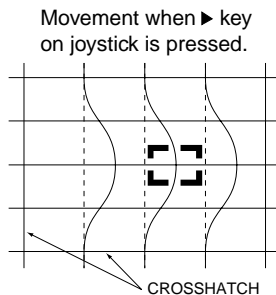
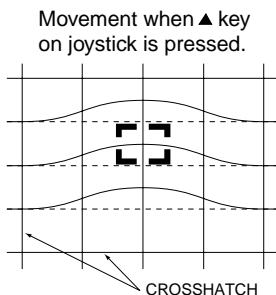
Operating the joystick can move the marker up, down, or to the left or right freely.

- When marker color is green. (GRN mode)



- ① : moves the marker clockwise from center to outside.  
④ : moves the marker counterclockwise from outside to center.

Fine adjustment can be made on the basis of marker position using ▲, ▼, ◀, ▶ keys on the joystick.



- 6) Press "9" button on the commander to return to the rough adjustment mode.

### 6-2-4. Projector Engine Adjustment (Sub Deflection Adjustment)

Note: Prior to starting this adjustment, make sure that the data of GRN, BLU, and RED items in the DRC100 (PAL) mode are same as those data given in "6-1-5. Service List" on page 35. If not same, retry the registration adjustment from the beginning.

: Adjustment by the projector engine adjustment only will burden the load on the system, and therefore main deflection adjustment should be made properly.

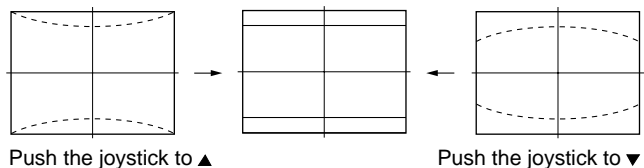
: When exiting from the Projector Engine mode, press "MUTE"+"0" buttons on the commander to write the data. Omission of this operation causes the data to be returned to the data before adjustment.

Adjustment Item	Adjustment Type		
	GRN	RED	BLU
	H / V	H / V	H / V
CENT	X / X	O / O	O / O
SKEW	X / X	O / O	O / O
SIZE	X / X	O / O	O / O
LIN	- / -	O / -	O / -
KEY	- / -	- / O	- / O
PIN	- / O	- / O	- / O

#### <Adjustment for DRC100 (PAL) Mode>

##### 1. Green Adjustment

- 1) Place the caps on the red and blue lenses so that only the green color is displayed.
- 2) Enter the PAL SPCB signal to set the DRC100 (PAL) mode.
- 3) Select the Projector Engine mode.
- 4) Press "6" button on the commander to display internal test signal (crosshatch).
- 5) Select "GRN PIN" and adjust so that upper and lower horizontal lines on the screen become straight.



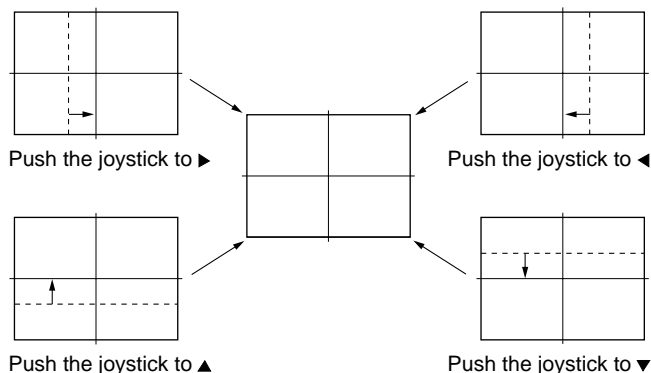
- 6) Fix the data of other items.
- 7) Press "9" button on the commander to enter the fine adjustment mode.
- 8) Make fine adjustment so that horizontal lines and vertical lines become straight.
- 9) Press "9" button on the commander to return to the rough adjustment mode.

## 2. Blue Adjustment

- 1) Place a cap on the red lens so that green and blue colors are displayed.
- 2) Press “③” button on the commander to select BLU mode.
- 3) Adjust the following items so that blue lines overlap with green lines.

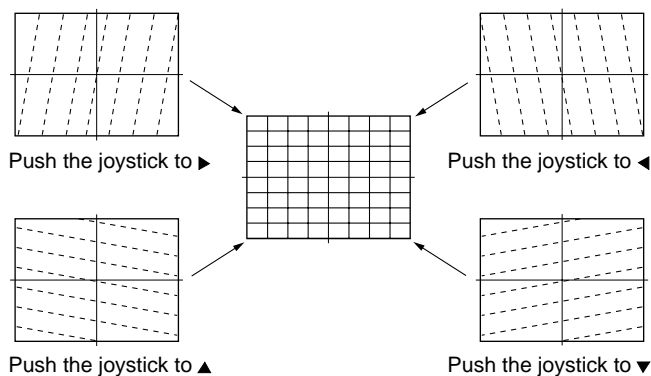
### • BLU CENT (horizontally/vertically)

Adjust so that the pictures coincide in the center of screen.



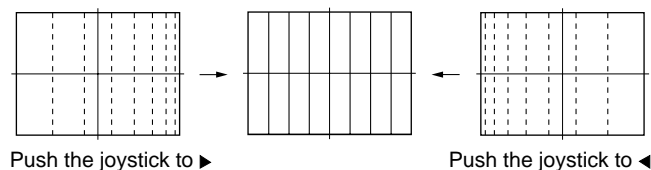
### • BLU SKEW (horizontally/vertically)

Correct the tilt of horizontal lines and vertical lines.



### • BLU LIN (horizontally)

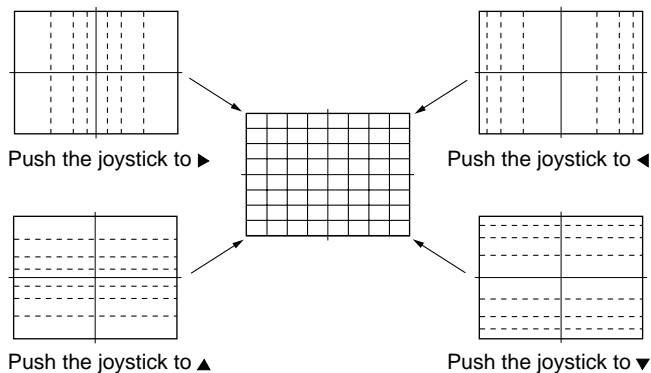
Adjust so that each space at the right end and at the left end of screen is equal.



### • BLU SIZE (horizontally/vertically)

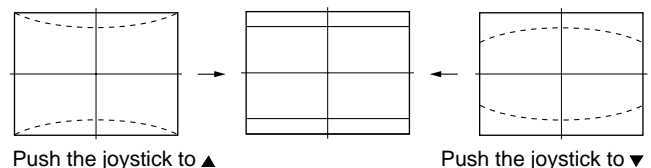
Adjust so that each distance from center to left end and to right end is equal.

Adjust so that each distance from center to top and to bottom is equal.



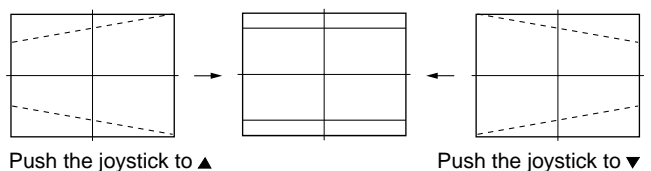
### • BLU PIN (vertically)

Adjust so that upper and lower horizontal lines on the screen become straight.



### • BLU KEY (vertically)

Adjust so that upper and lower horizontal lines on the screen become parallel.



- 4) Press “⑨” button on the commander to enter the fine adjustment mode.
- 5) Make fine adjustment so that horizontal lines and vertical lines overlap with green lines.
- 6) Press “⑨” button on the commander to return to the rough adjustment mode.

### 3. Red Adjustment

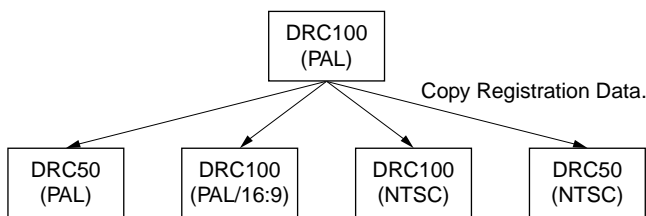
- 1) Place a cap on the blue lens so that green and red colors are displayed.
- 2) Press “③” button on the commander to select RED mode.
- 3) Hereinafter, use same manner as that of blue adjustment to adjust so that the red lines overlap with green lines.

### 4. Registration Data Writing

- 1) After each adjustment of green, blue, and red for the DRC100 (PAL) mode finished, press “⏏ (MUTE)”+“⑩” buttons on the commander to write registration data to the NVM.

#### <Copy of Registration Data>

1. Make sure that the adjustment for DRC100 (PAL) mode finished and the data have already been written.
2. Select the Projector Engine mode.
3. Press “②”+“⑩” button on the commander.
4. The data of DRC100 (PAL) mode are copied to all other modes.



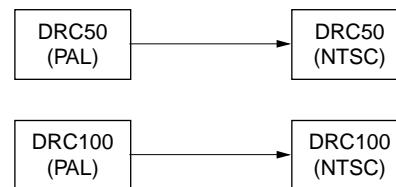
#### <Adjustment for DRC50 (PAL) Mode>

1. Enter the PAL SPCB signal to set the DRC50 (PAL) mode.
2. Select the Projector Engine mode.
3. Press “⑥” button on the commander to display internal test signal (crosshatch).
4. Press “⑨” button on the commander to enter the fine adjustment mode.
5. Using the lens caps as necessary, perform a fine adjustment so that green, blue, and red vertical lines and horizontal lines become straight, and respective color lines overlap with green lines.
6. Press “⑨” button on the commander to return to the rough adjustment mode.
7. After each adjustment of green, blue, and red for the DRC50 (PAL) mode finished, press “⏏ (MUTE)”+“⑩” buttons on the commander to write registration data to the NVM.

#### <Copy of Registration Data from PAL to NTSC>

1. Make sure that the adjustment for DRC50 (PAL) mode finished and the data have already been written.
2. Select the Projector Engine mode.
3. Press “⏏ (ON SCREEN DISPLAY)”+“⑩” buttons on the commander.
4. Respective data of DRC50 (PAL) mode and DRC100 (PAL) mode are copied to the NTSC mode.

Copy Registration Data from PAL to NTSC.





#### <Adjustment for DRC100 (PAL/16 : 9) Mode>





1. Place the caps on the red and blue lenses so that only the green color is displayed.
2. Enter the PAL SPCB signal to set the DRC100 (PAL) mode.
3. Set the screen format to 16 : 9.
4. Select the Projector Engine mode.
5. Press “⑥” button on the commander to display internal test signal (crosshatch).
6. Select “GRN SIZE”, and press ▲ or ▼ key on the joystick to fix the data in vertical direction to “-150”.
7. Select “GRN PIN” and adjust so that upper and lower horizontal lines on the screen become straight.
8. Fix the other item data.
9. Press “⑨” button on the commander to enter the fine adjustment mode.
10. Make a fine adjustment so that horizontal lines and vertical lines become straight.
11. Press “⑨” button on the commander to return to the rough adjustment mode.
12. Hereinafter, use same manner as that of adjustment for DRC100 (PAL) mode to perform the blue and red adjustments.
13. After each adjustment of green, blue, and red for the DRC100 (PAL/16 : 9) mode finished, press “⏏ (MUTE)”+“⑩” buttons on the commander to write registration data to the NVM.
14. Set the screen format to 4 : 3.

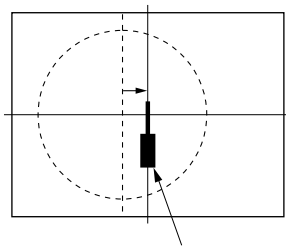
### 6-3. AUTO CONVERGENCE OFFSET

This adjustment must be performed after the registration adjustment was made or after readjustment was made by any reason.

1. Darken the periphery of this set.
2. Enter the PAL SPCB signal to set the DRC100 (PAL) mode.
3. Select the Projector Engine mode.
4. Press “” (AUTO CONVERGENCE)” button on the front panel of the set.
5. In the same manner, select DRC50 (PAL) and DRC100 (PAL/16 : 9) modes respectively, and press the “” (AUTO CONVERGENCE)” button in the Projector Engine mode.
6. Enter the NTSC signal, and perform the same steps in the DRC100 (NTSC) and DRC50 (NTSC) modes respectively.

### 6-4. PICTURE CENTER ADJUSTMENT

1. Enter the SPCB signal.
2. Select the TT mode, and press “”+“” buttons on the commander.
- TT32 : Horizontal center adjustment for MID-X input
3. Pressing ◀ or ▶ key on the joystick, move the picture in horizontal direction to center the picture on the OSD mark.
4. Press “ (TV MODE)” or “ (OK)” button on the commander to return to normal TV mode.



Adjust picture center to the position of this OSD mark.

### 6-5. WHITE BALANCE ADJUSTMENT

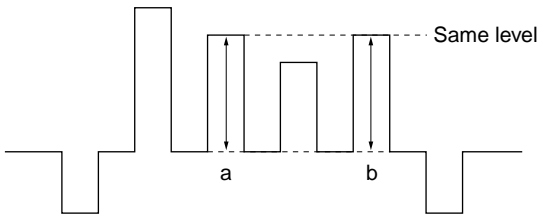
1. Enter the monoscope signal.
2. Press “MENU” button on the commander to enter the Picture Adjustment menu.
3. Set the Picture Mode to “Personal”, and the Digital Mode to “DRC100”.
4. Enter the Service menu, and select “Device Register Setting” → “Backend”.
5. Adjust “13 Sub Bright” so that 10 IRE section barely grows.
6. Enter all-white pattern signal.
7. Fix “17 G-Cutoff” to “31”, and adjust “15 R-Cutoff” and “19 B-Cutoff” so as to attain the optimum white balance.
8. Adjust “13 Sub Bright” so that 100 IRE section barely grows.
9. Adjust “10 R-Drive” and “12 B-Drive” so as to attain the optimum white balance.
10. Repeatedly adjust the white balance for the minimum and maximum picture setting.

### 6-6. SUB BRIGHT ADJUSTMENT

1. Enter the monoscope signal.
2. Press “MENU” button on the commander to enter the Picture Adjustment menu.
3. Set respective items as follows:
  - Picture Mode → Personal
  - AI (Artificial Intelligence) → OFF
  - Contrast → Minimum
  - Brightness → 50%
4. Enter the Service menu, and select “Device Register Setting” → “Backend”.
5. Adjust “13 Sub Bright” so that the border between 0 IRE and 10 IRE becomes distinct.

### 6-7. SUB COLOR ADJUSTMENT

1. Enter the color bar signal.
2. Connect the oscilloscope probe to the CN4500 pin 5 on the E board.
3. Enter the Service menu, and set respective items as follows.  
However, record current set values so that they can be restored later.
- 1) Select “Device Register Setting” ➔ “Backend”.
  - 1 D-Col ➔ OFF
  - 2 Contrast ➔ 31
  - 5 Color ➔ 31
  - 18 DPIC-Level ➔ 0
  - 20 DC-Tran. ➔ 0
- 2) Select “Initializing” ➔ “Feature Setting”.
  - 6 PictBoostBypass ➔ ON
4. Select “Device Register Setting” ➔ “Backend”.
5. Measure waveform, and adjust “29 Sub Color” so that the height of “a” and “b” is same as shown in figure.
6. Return the data set in step 3 to original values.



### 6-8. SUB COLOR OFFSET (61 inch model only)

1. Confirm the result performed in **6-7. SUB COLOR ADJUSTMENT**.
2. Enter the Service menu, and select “Device Register Setting” ➔ “Backend”.
3. Select “29 Sub Color”, and set existing data value +2.  
(61 inch model only)

## 6-9. TEST-TEST MODE

Is available by pressing “OSD”, “5”, “Volume minus”, “TV” button in the standby mode, OSD “TT--” appears. The functions described below are available by pressing the two numbers. To release the Test-Test mode, Press “⓪” twice or switch the TV set into standby mode. Pressing the two Local Control buttons ( + and – ) during Power ON will also switch into “TT” mode.

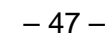
In “TT” mode, it is possible to remove the Menu from the screen by pressing the Speaker OFF button once. Pressing the Speaker OFF button a second time will cause the menu to reappear. The Function is kept even when the menu is not displayed !!.

00	Switch back to normal mode - “TT” mode off
01	Set picture maximum
02	Set picture minimum
03	Set speaker/headphone Volume to 30%
04	Set speaker/headphone Volume to 50%
05	Set speaker/headphone Volume to 65%
06	Set speaker/headphone Volume to 80%
07	Ageing Mode
08	Shipping Condition
09	Enter PJ Engine service mode
10	No function
11	Sub picture adjustment
12	Sub colour adjustment
13	Displayed software version and TV set configuration
14	Production Info Display
15	Picture Rotation
16	Picture level 50%
17	Audio mute on
18	No function
19	Sub brightness adjustment
20	See “TT10”
21	Destination A includes text settings, display TV status
22	Destination L includes text settings, display TV status
23	Destination E includes text settings, display TV status
24	Destination U includes text settings, display TV status
25	Destination D includes text settings, display TV status
26	Destination B includes text settings, display TV status
27	Destination K includes text settings, display TV status
28	Destination R includes text settings, display TV status
30	See “TT10”
31	Geometry adjustment 1
32	Geometry adjustment 2
33	Error monitor
34	No function
35	CRT 4:3 <=> 16:9 ; Display TV status
36	Line 23 detection switch
37	Velocity Modulation (VM) test
38	No function
39	No function
40	See “TT10”

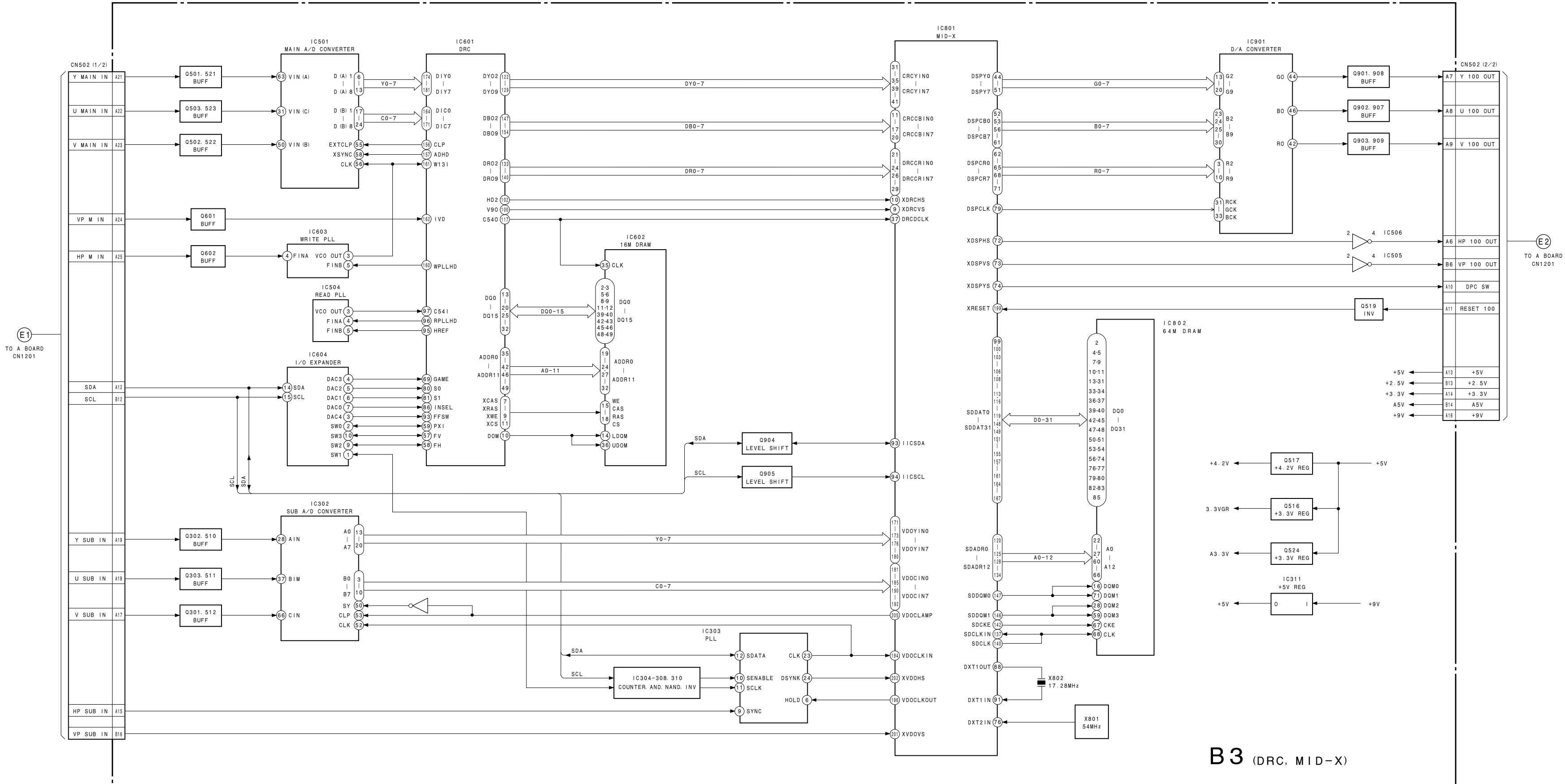
41	Screen mode check
42	Reinitialize geometry
43	No function
44	Screen mode DRC100
45	Screen mode DRC50
46	Reserved for dealer commander
47	Reinitialize NVM with program 99
48	Set NVM as non virgin
49	Set NVM as virgin
50	See “TT10”
51	Set Dolby volume to 90%
52	Dolby on left speaker only
53	Dolby on right speaker only
54	Dolby on left centre only
55	Dolby surround speaker only
56 I 59	No function
60	See “TT10”
61	Service mode
62	Production mode
65	Reset error codes
68	Ignore errors on
69	Ignore errors off
70	See “TT10”
71	No function
72	No function
73	Clear programs
74 I 79	No function
80	See “TT10”
82	PAP H adjustment left image
83 I 86	No function
87	Personal ID reset with program 99
88	Parental Lock off
89	No function
90	See “TT10”

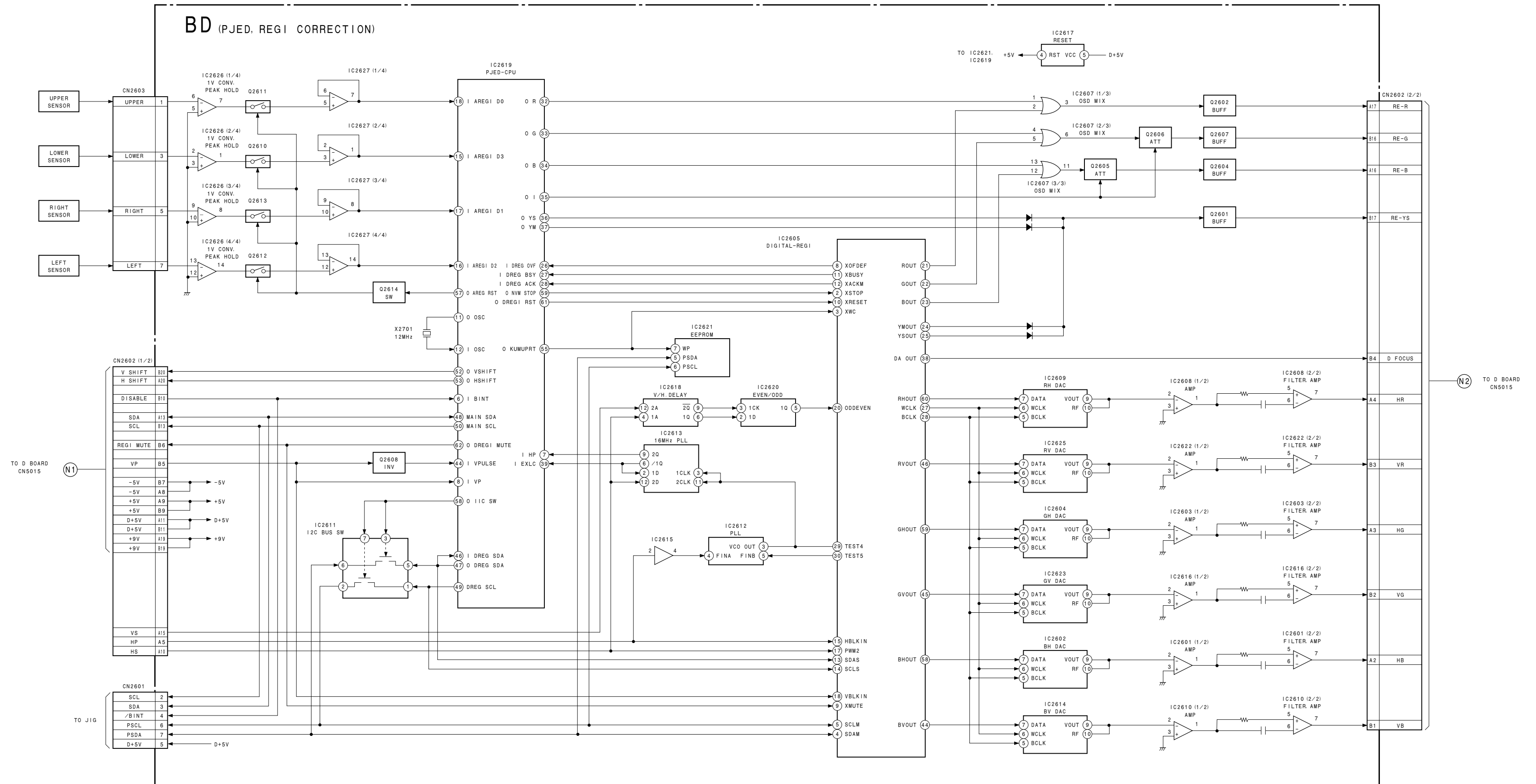
## SECTION 7

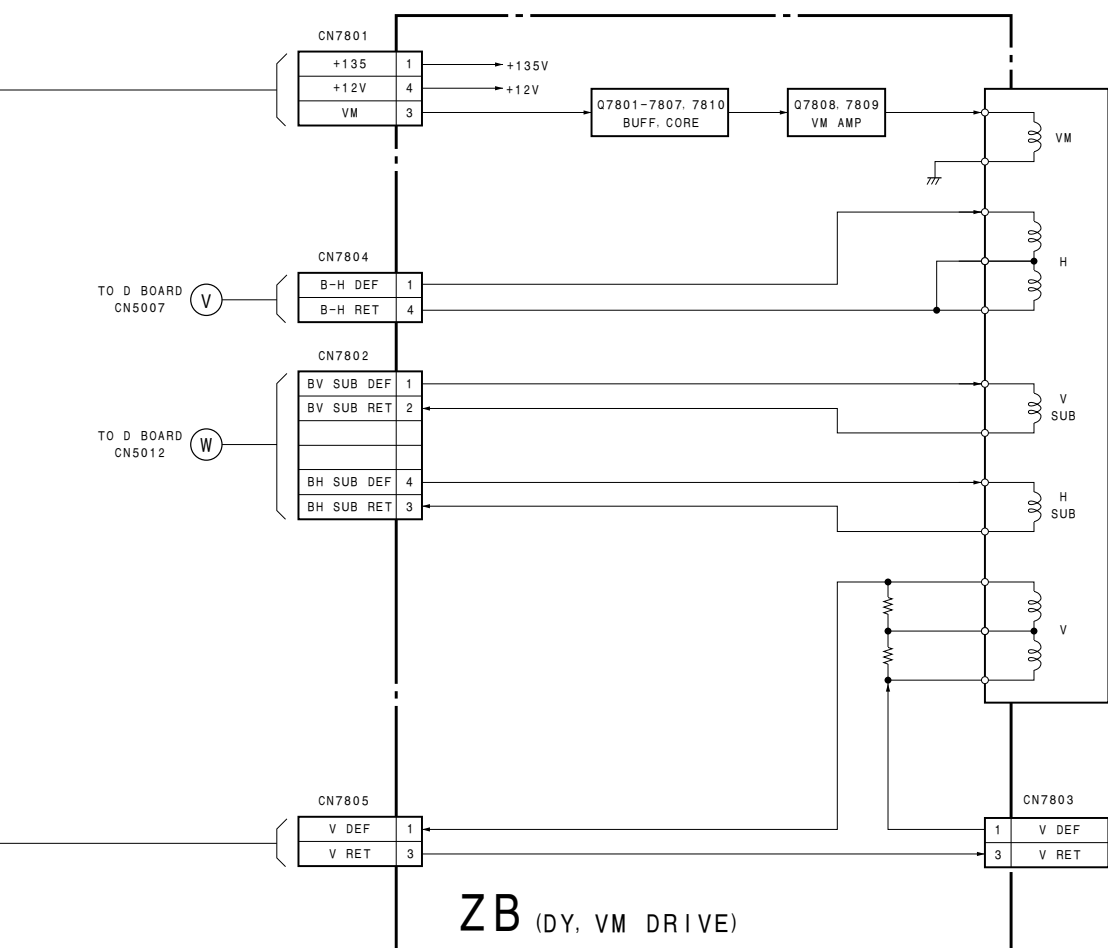
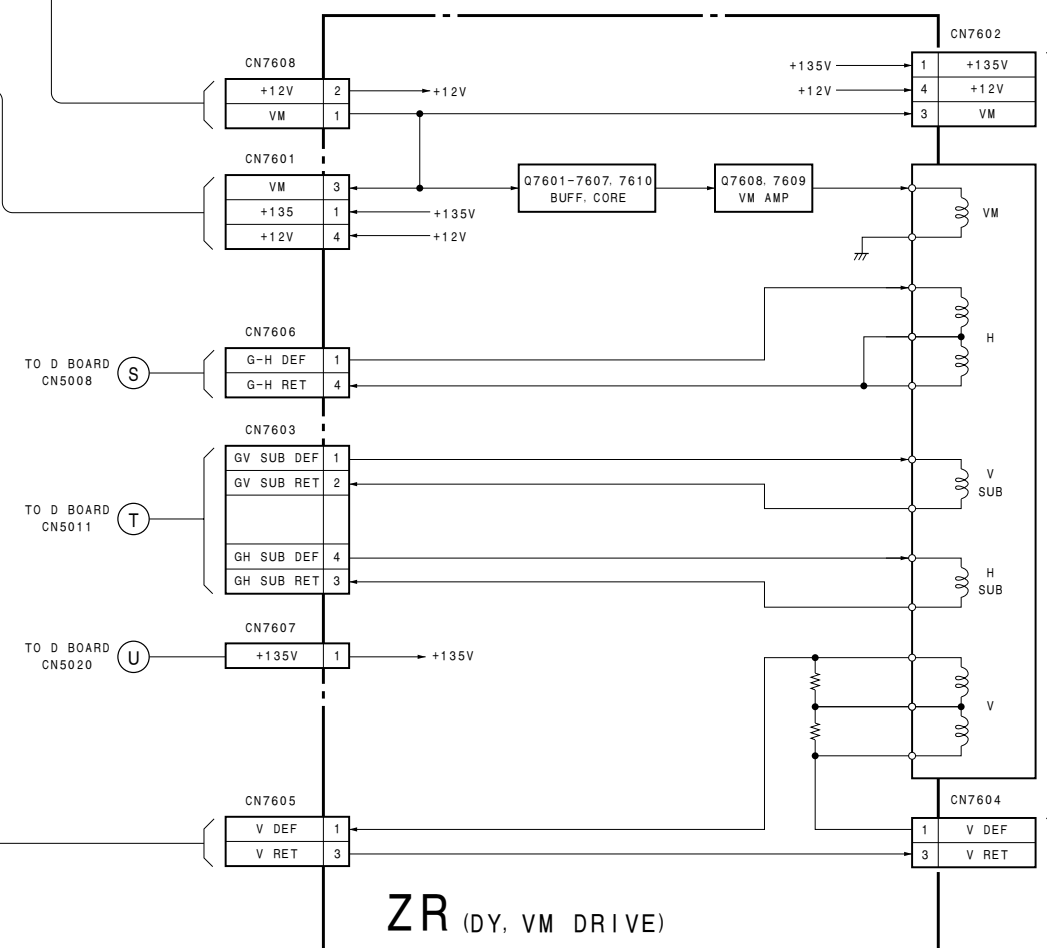
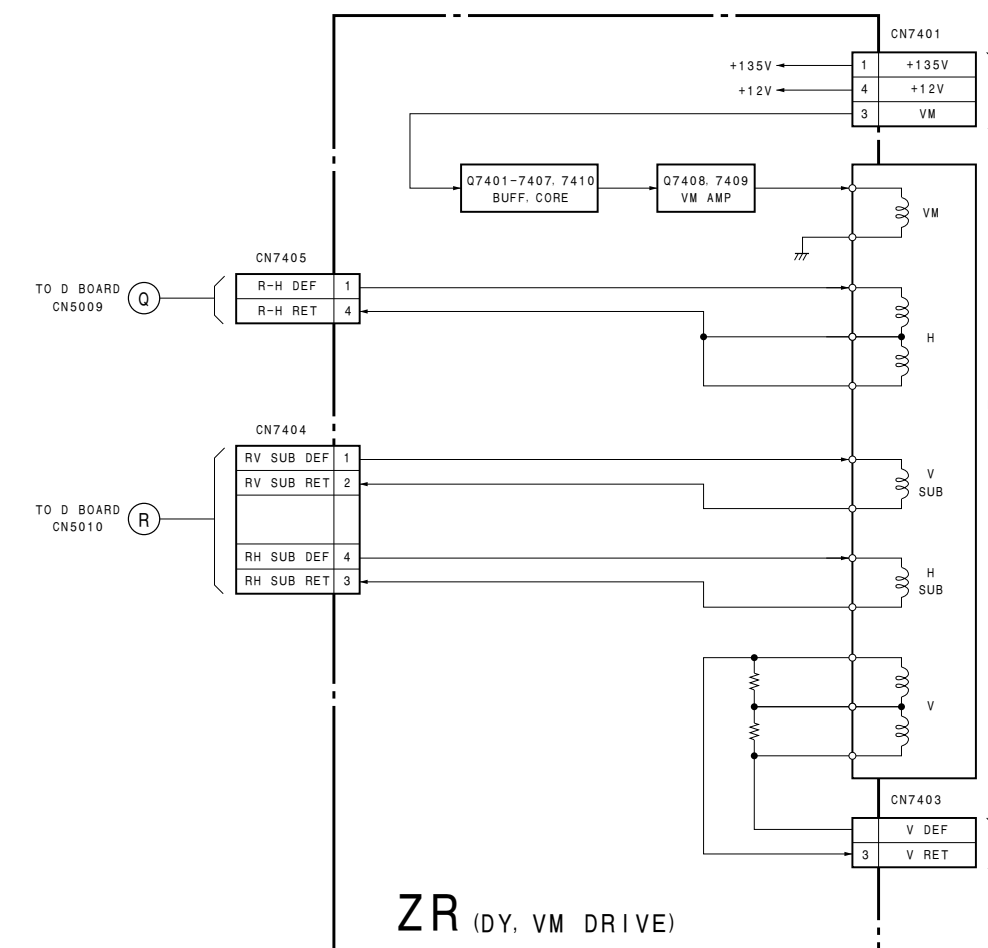
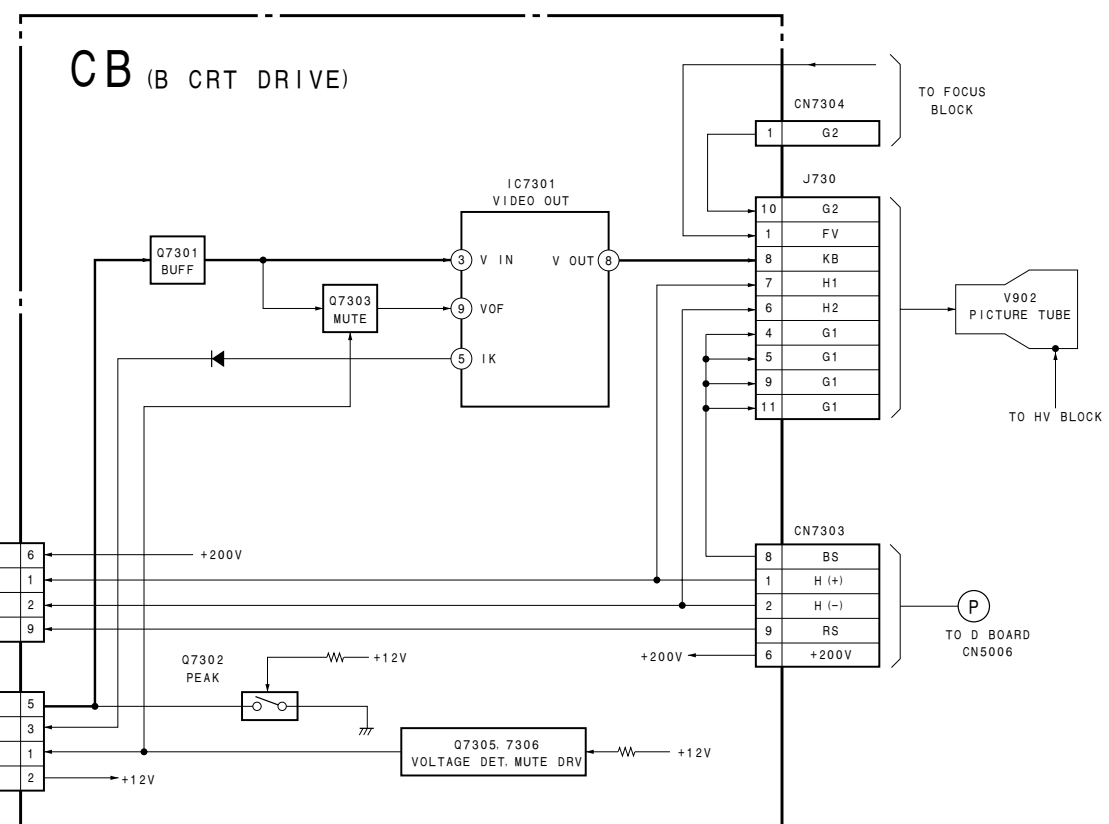
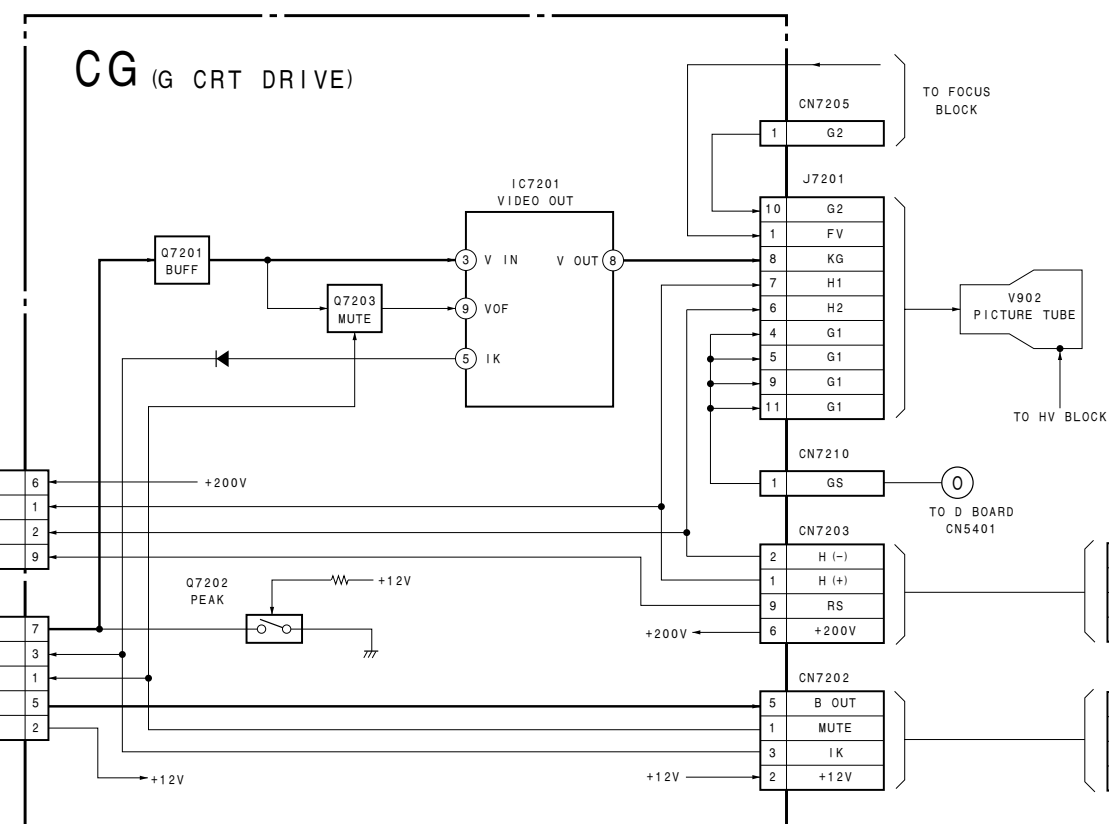
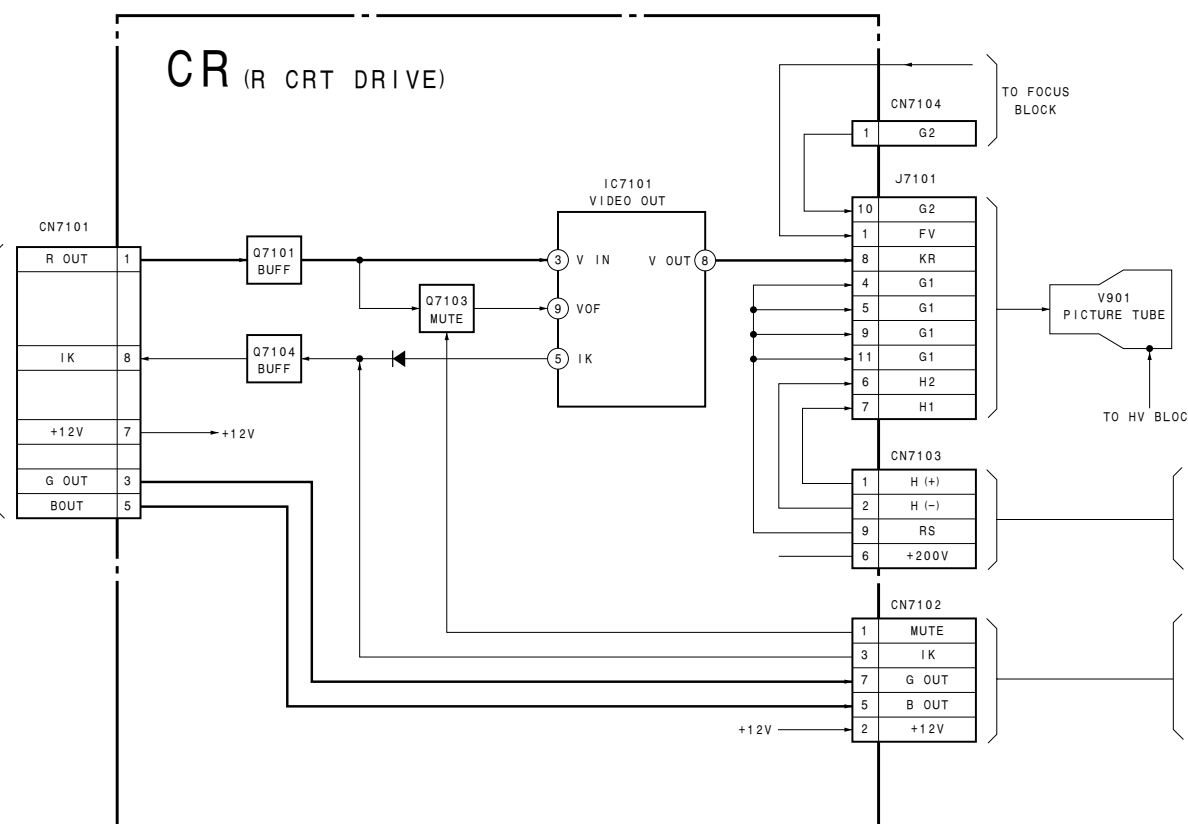
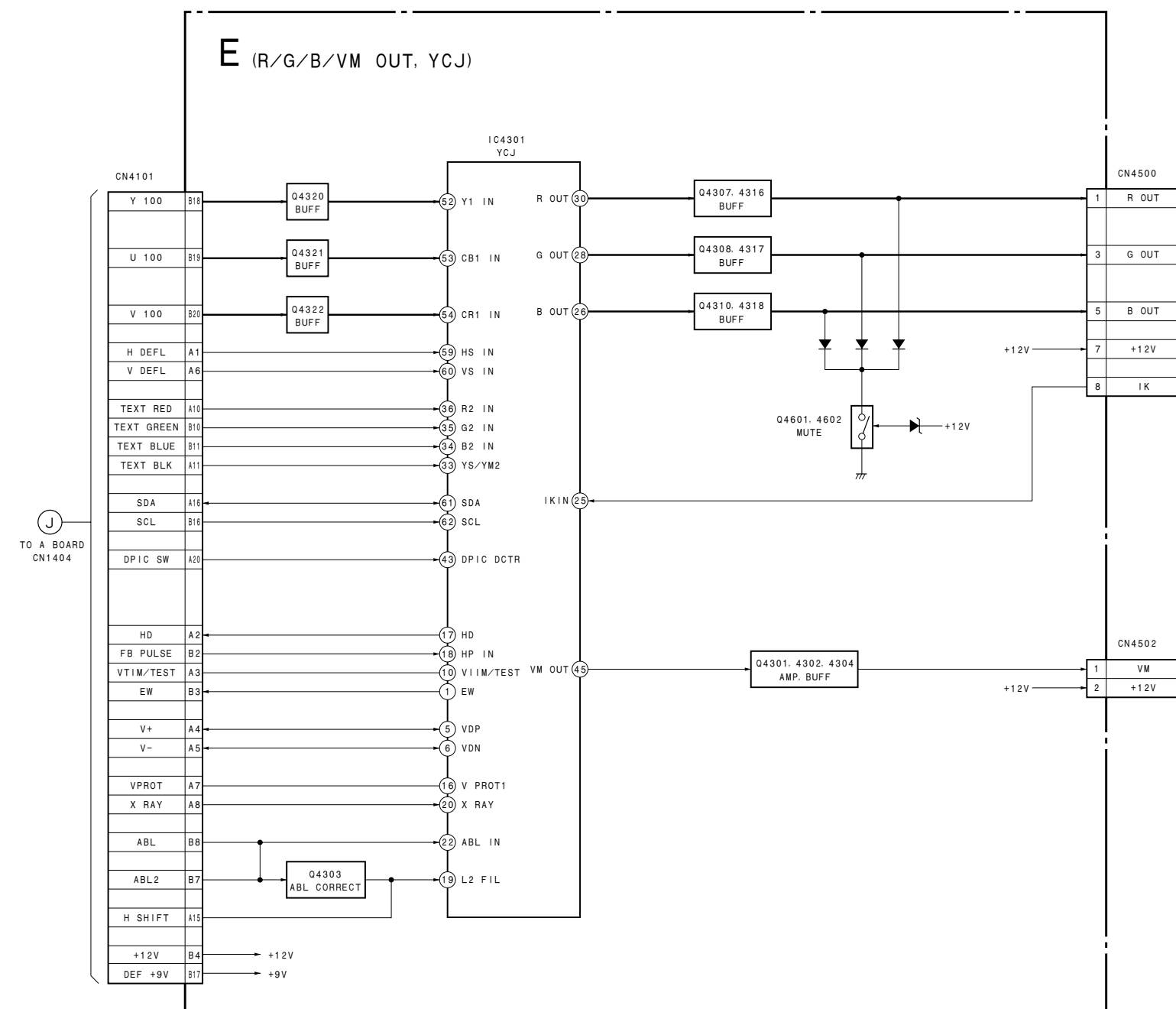
### DIAGRAMS

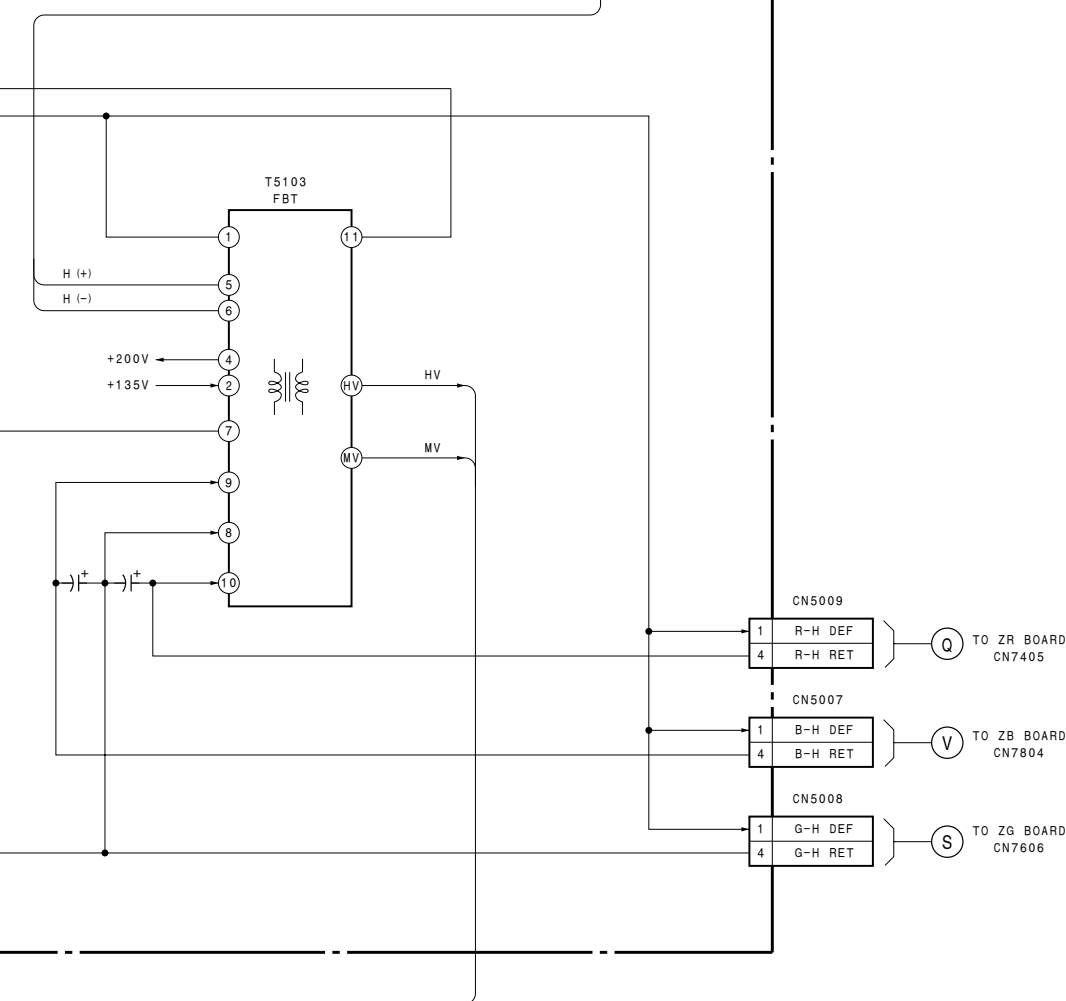
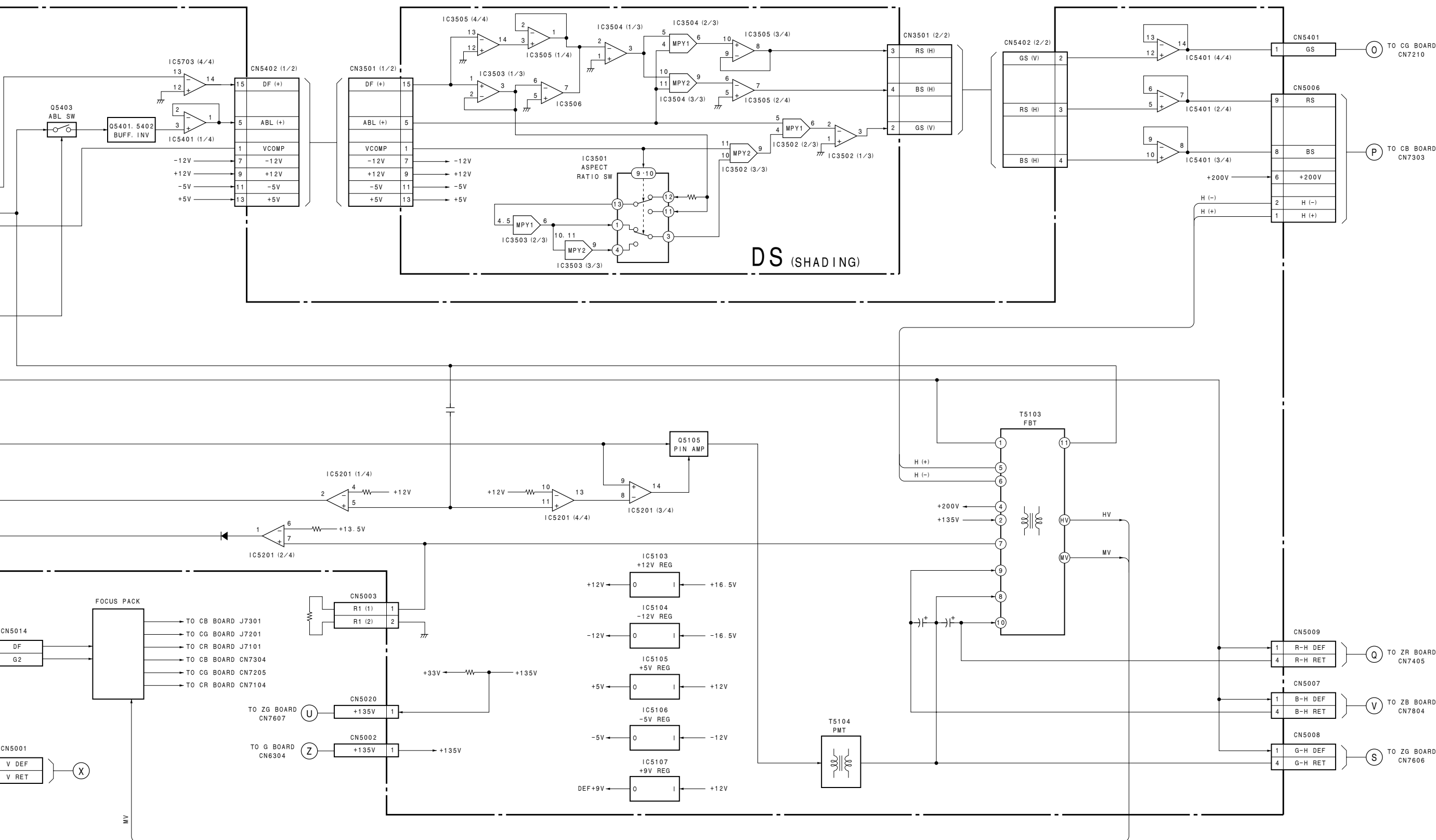
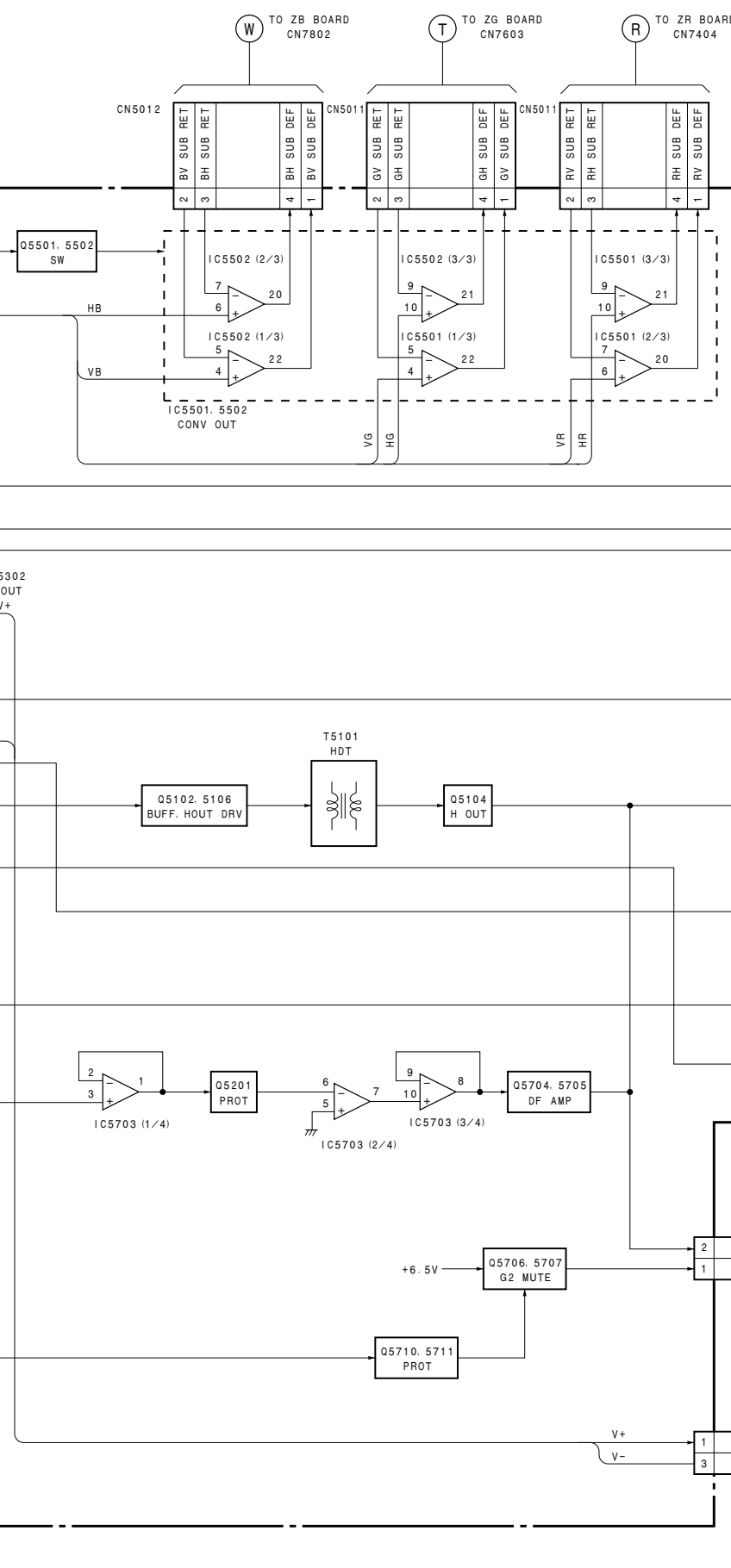
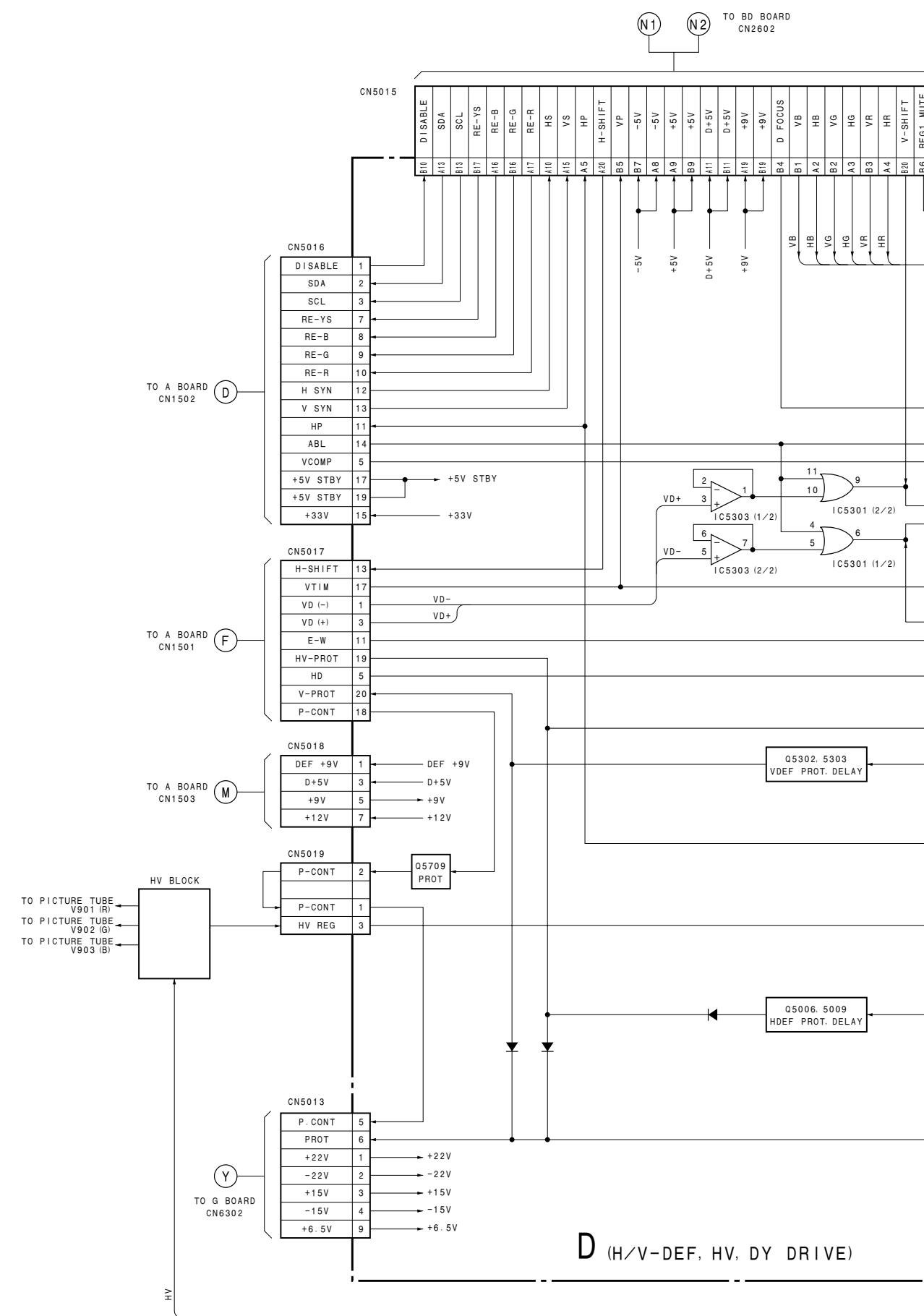


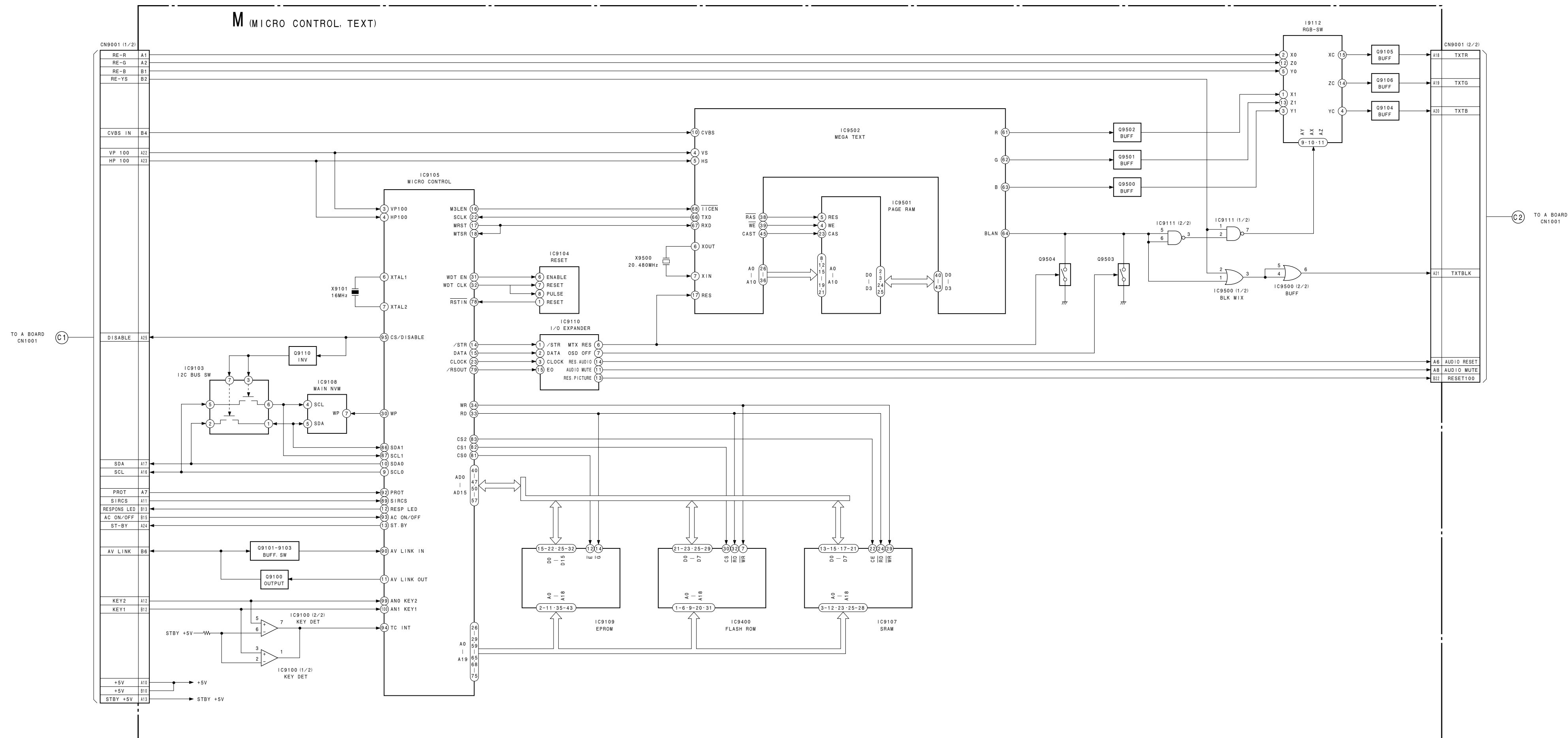


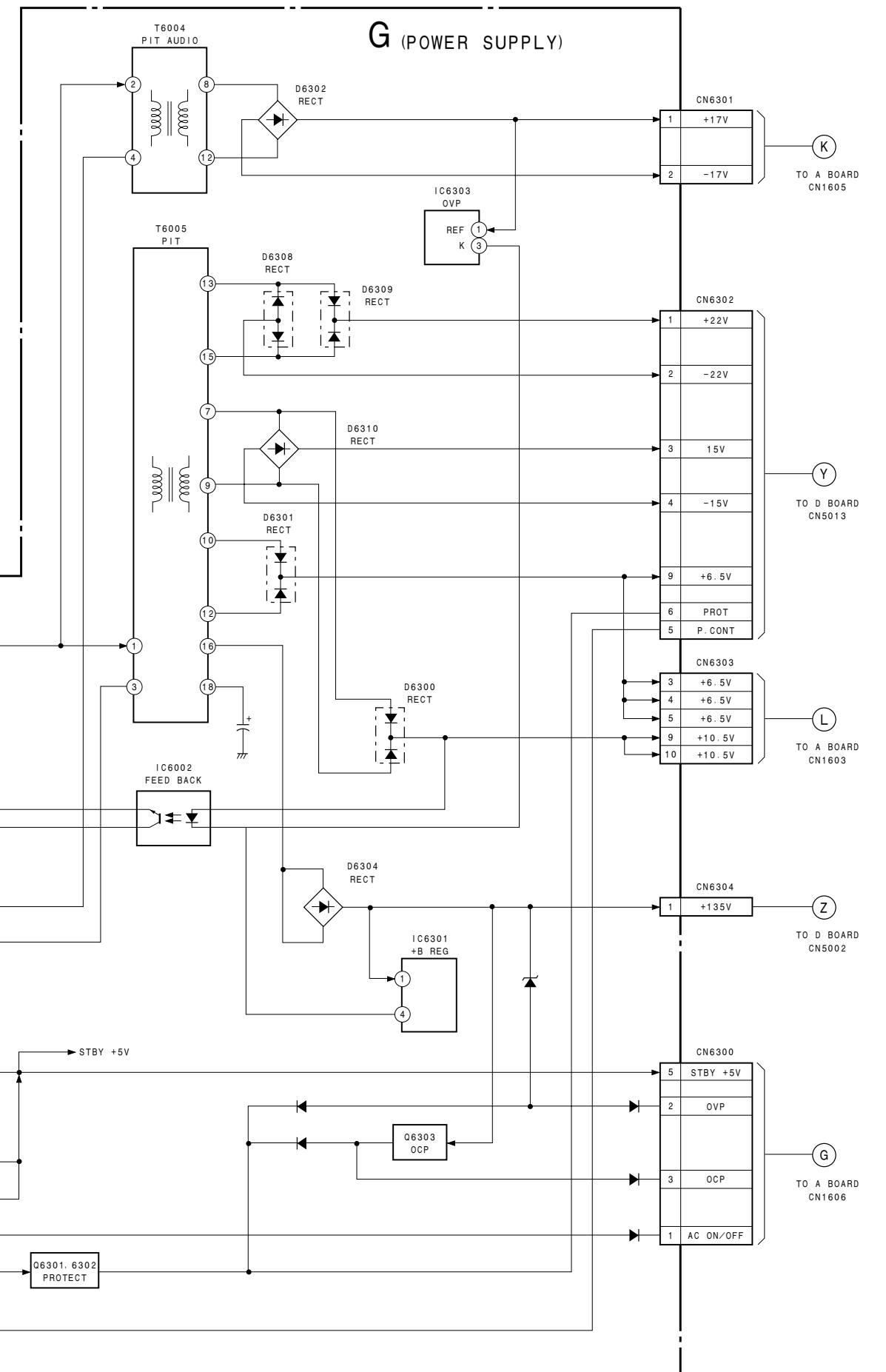
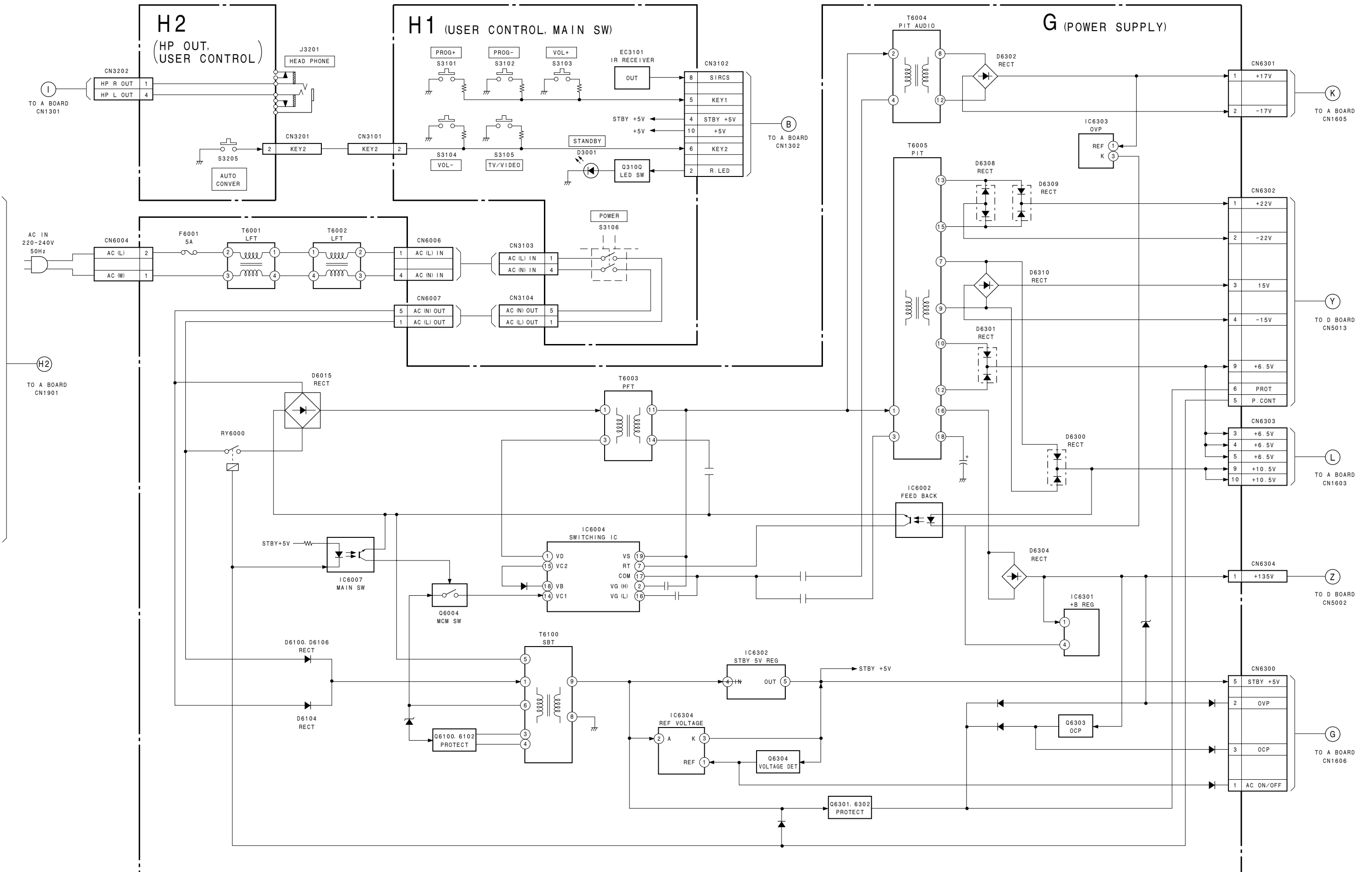
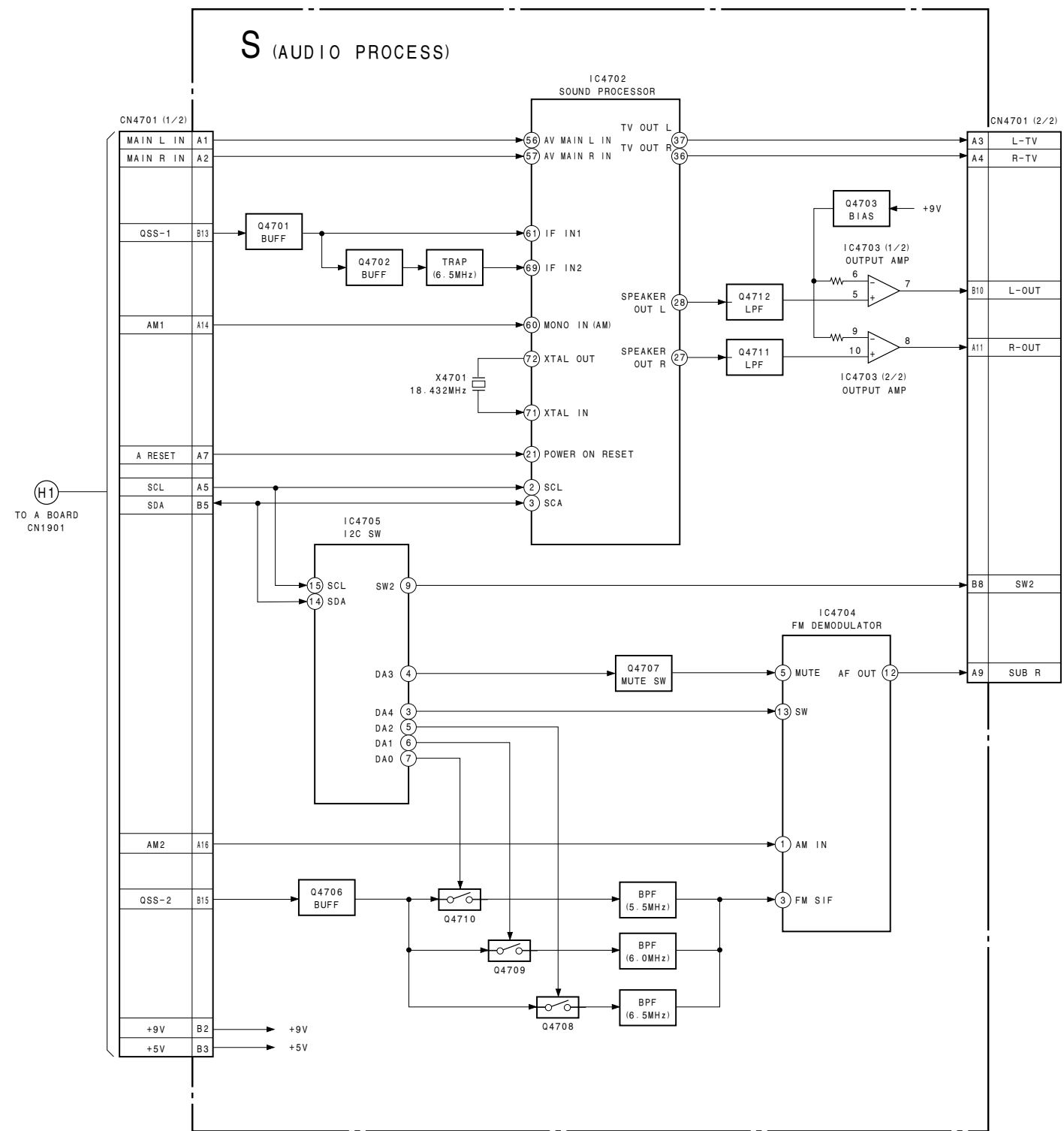




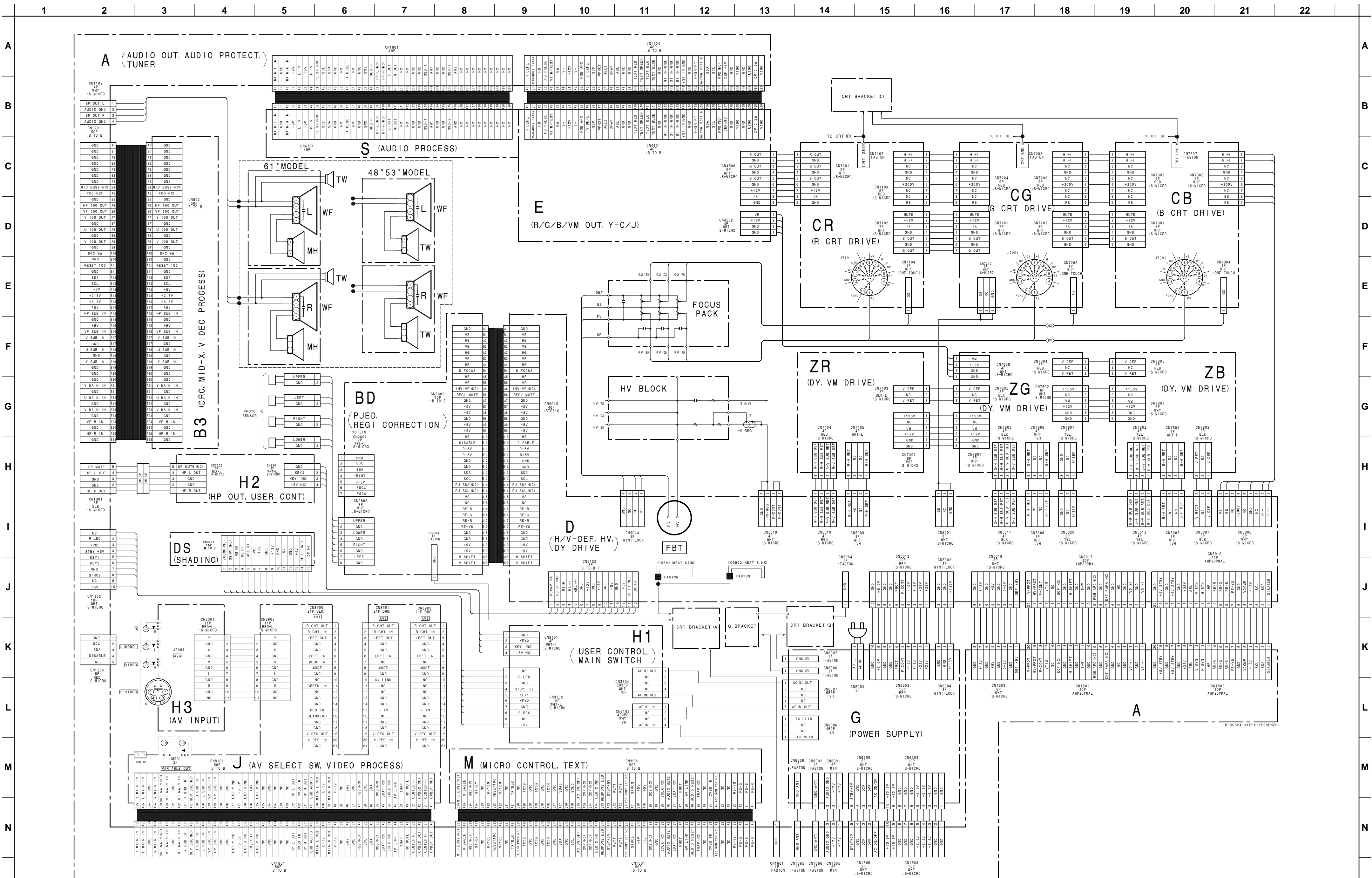




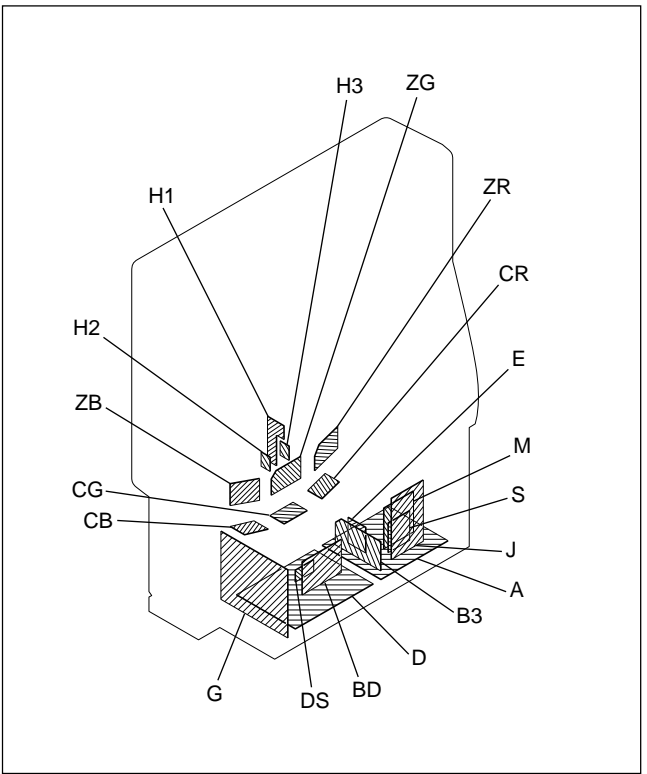




7-2. FRAME SCHEMATIC DIAGRAM



7-3. CIRCUIT BOARDS LOCATION



7-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

(1) Schematic Diagram of J (1/2) Board

**Note:**

- The parts marked “H” on schematic diagrams are not mounted.
- All capacitors are in  $\mu\text{F}$  unless otherwise noted. (pF:  $\mu\text{pF}$ )
- Capacitors without voltage indication are all 50 V.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm

Rating electrical power 1/4 W (CHIP : 1/10 W)

- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-ground.
- : earth-chassis.
- All voltages are in V.
- Readings are taken with a 10 M digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- \* : Can not be measured.
- NO MARK: Common
- < : > : SECAM
- ( ) : NTSC 3.58 MHz
- Circled numbers are waveform references.
- : B + bus.
- : B - bus.
- : Signal path.

Reference information	
RESISTOR	: RN METAL FILM
	: RC SOLID
	: FPRD NONFLAMMABLE CARBON
	: FUSE NONFLAMMABLE FUSIBLE
	: RW NONFLAMMABLE WIREWOUND
	: RS NONFLAMMABLE METAL OXIDE
	: RB NONFLAMMABLE CEMENT
COIL	: LF-8L MICRO INDUCTOR
CAPACITOR	: TA TANTALUM
	: PS STYROL
	: PP POLYPROPYLENE
	: PT MYLAR
	: MPS METALIZED POLYESTER
	: MPP METALIZED POLYPROPYLENE
	: ALB BIPOLAR
	: ALT HIGH TEMPERATURE
	: ALR HIGH RIPPLE

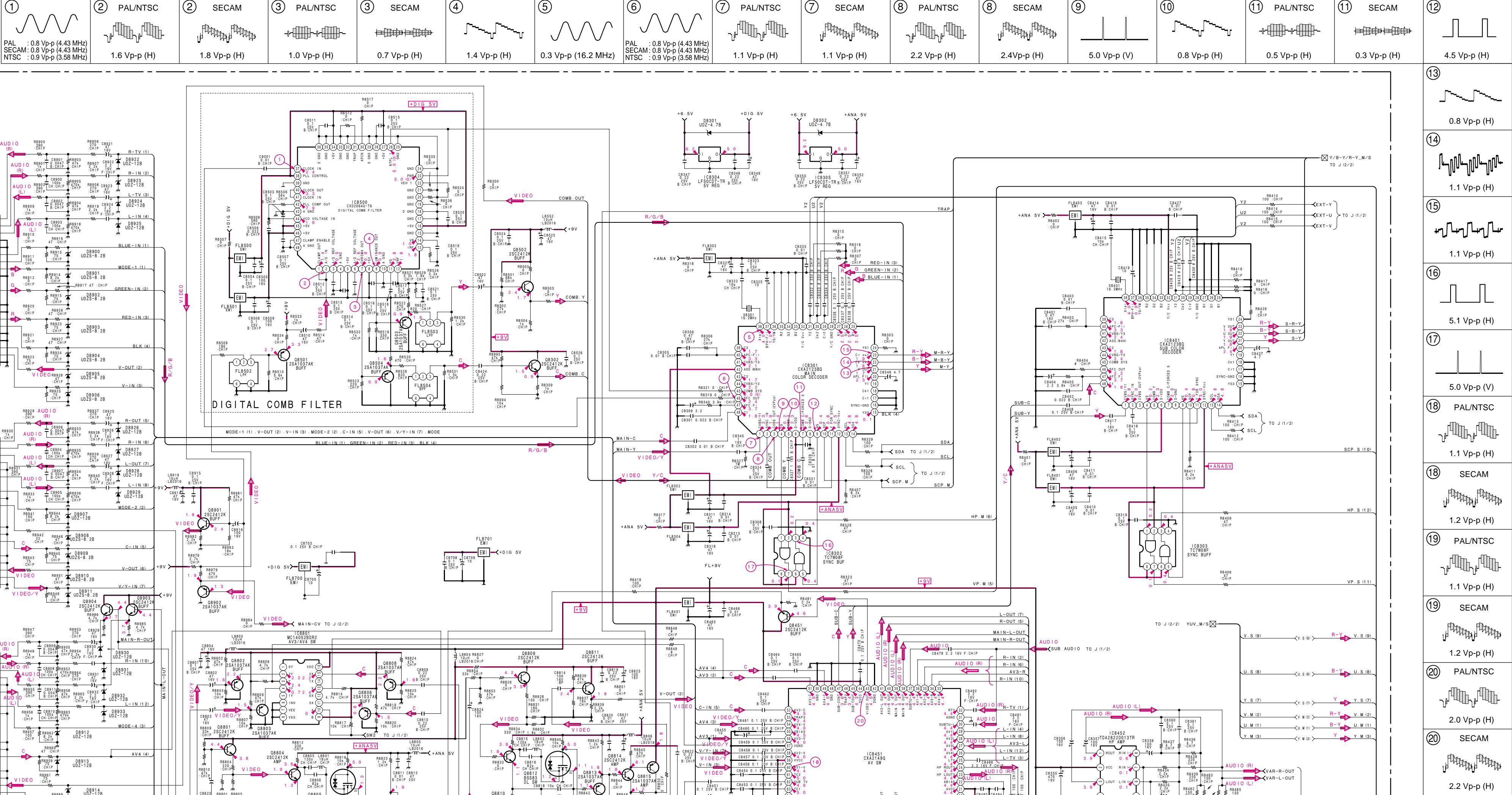
**Note:** The components identified by shading and mark are critical for safety. Replace only with part number specified.

Terminal name of semiconductors in silk screen printed circuit (※)

Device	Printed symbol	Terminal name	Circuit
① Transistor		Collector Base Emitter	
② Transistor		Collector Base Emitter	
③ Diode		Cathode Anode (NC)	
④ Diode		Cathode Anode (NC)	
⑤ Diode		Cathode Anode (NC)	
⑥ Diode		Common Anode Cathode	
⑦ Diode		Common Anode Cathode	
⑧ Diode		Common Anode Anode	
⑨ Diode		Common Anode Anode	
⑩ Diode		Common Cathode Cathode	
⑪ Diode		Common Cathode Cathode	
⑫ Diode		Anode Cathode Anode	
⑬ Transistor (FET)		Drain Source Gate	
⑭ Transistor (FET)		Drain Source Gate	
⑮ Transistor (FET)		Source Drain Gate	
⑯ Transistor		Emitter Collector Base	
— Discrete semiconductor			

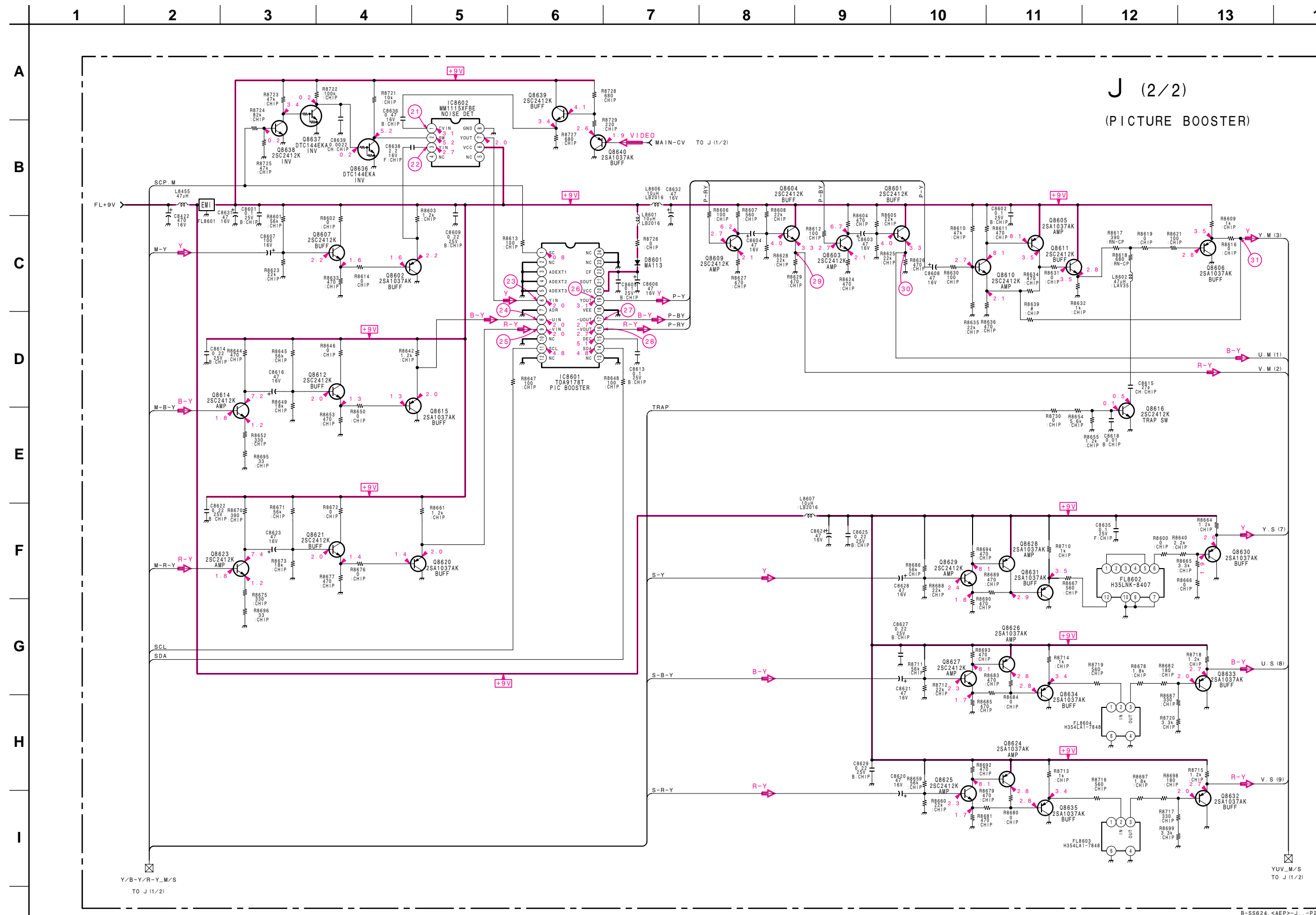
(Chip semiconductor that are not actually used are included.) Ver.1.5

• J (1/2) BOARD WAVEFORMS

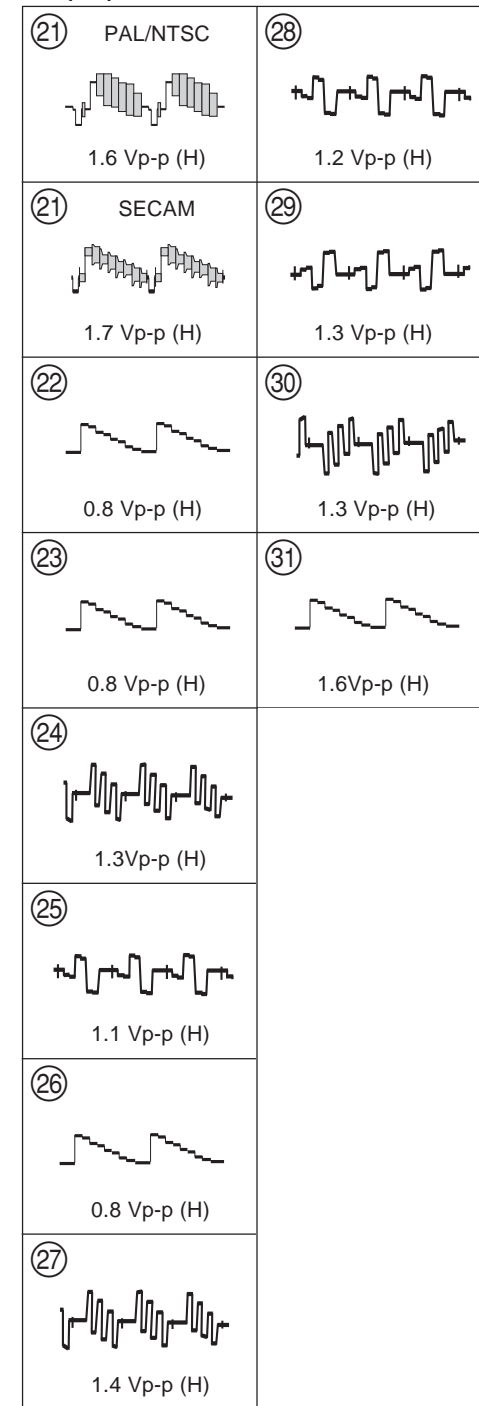


J (1/2)  
(AV SELECT SWITCH)  
VIDEO PROCESS

(2) Schematic Diagram of J (2/2) Board



## • J (2/2) BOARD WAVEFORMS

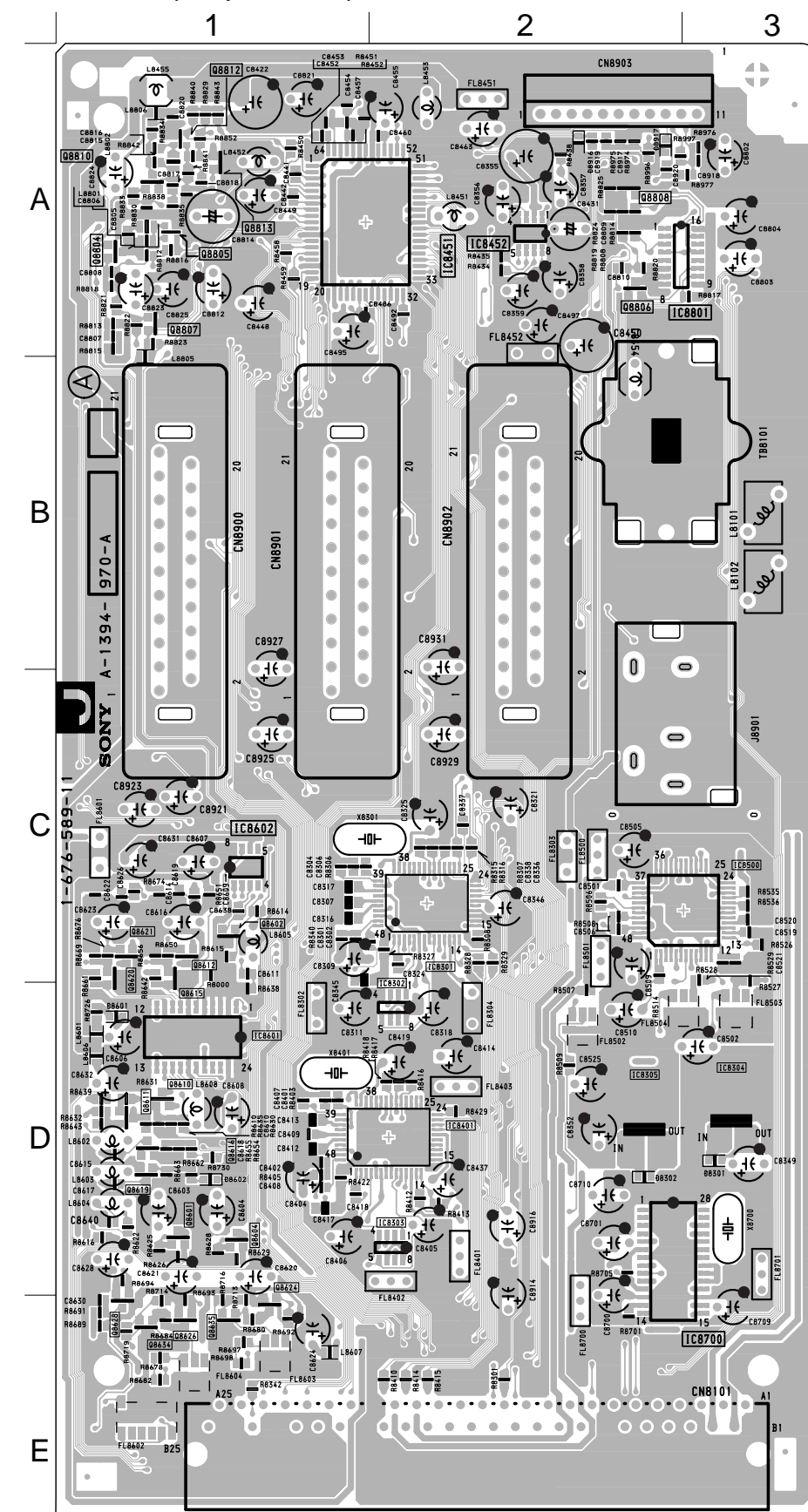


## • J BOARD SEMICONDUCTOR LOCATION

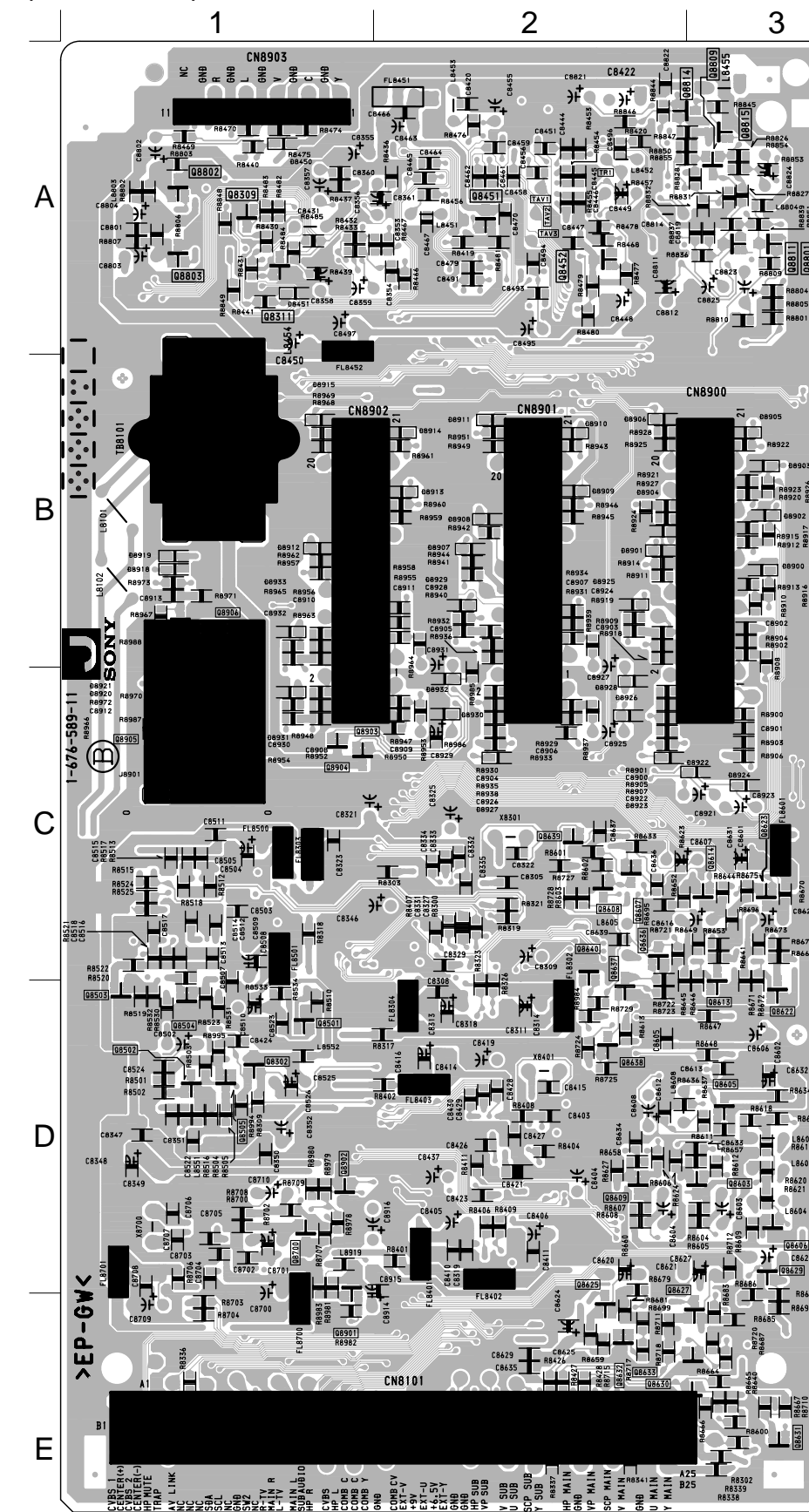
IC	(Component Side)	(Conductor Side)	*
IC8301	C-2		
IC8302	D-2		
IC8303	D-2		
IC8304	D-3		
IC8305	D-2		
IC8401	D-2		
IC8451	A-2		
IC8452	A-2		
IC8500	C-3		
IC8601	D-1		
IC8602	C-1		
IC8801	A-3		
Q8302	D-1		
Q8309	A-1		
Q8311	A-1		
Q8451	A-2		
Q8501	D-1		
Q8502	D-1		
Q8503	D-1		
Q8504	D-1		
Q8601	D-1		
Q8602	C-1		
Q8603	D-3		
Q8605	D-3		
Q8606	D-3		
Q8607	C-2		
Q8609	D-2		
Q8610	D-1		
Q8611	D-1		
Q8612	C-1		
Q8614	A-2		
Q8615	D-1		
Q8616	D-1		
Q8620	C-1		
Q8621	C-3		
Q8623	D-1		
Q8624	D-2		
Q8625	E-1		
Q8626	E-3		
Q8627	E-1		
Q8628	D-3		
Q8629	E-2		
Q8630	E-2		
Q8631	E-3		
Q8632	E-2		
Q8633	E-2		
Q8634	E-1		
Q8635	C-2		
Q8636	C-2		
Q8637	C-2		
Q8638	D-2		
Q8639	C-2		
Q8640	C-2		
Q8801	A-3		
Q8802	A-1		
Q8803	A-1		
Q8804	A-1		
Q8805	A-1		
Q8806	A-2		
Q8807	A-1		
Q8808	A-2		
Q8809	A-3		
Q8810	A-1		
Q8811	A-3		
Q8812	A-1		
Q8813	A-1		
Q8814	A-3		
Q8815	A-3		
Q8901	E-1		
Q8902	D-1		
Q8903	C-1		
Q8904	C-1		
Q8905	C-1		
Q8906	B-1		
D8301	D-3		
D8302	D-2		
D8451	A-1		
D8601	D-1		
D8901	B-3		
D8902	B-3		
D8903	B-3		
D8904	B-2		
D8905	B-3		
D8906	B-2		
D8907	B-2		
D8908	B-2		
D8909	B-2		
D8910	B-2		
D8911	B-2		
D8912	B-1		
D8913	B-2		
D8914	B-2		
D8915	B-2		
D8917	A-2		
D8918	B-1		
D8919	B-1		
D8920	C-1		
D8921	C-1		
D8922	C-3		
D8923	C-2		
D8924	C-3		
D8925	B-2		
D8926	C-2		
D8927	C-2		
D8928	B-2		
D8929	C-2		
D8930	C-2		
D8931	C-1		
D8932	C-2		
D8933	B-1		
X8301	C-1		
X8401	D-1		

\* Refer to Terminal name of semiconductors in silk screen printed circuit (see page 75)

- J BOARD - (Component Side)



(Conductor Side)

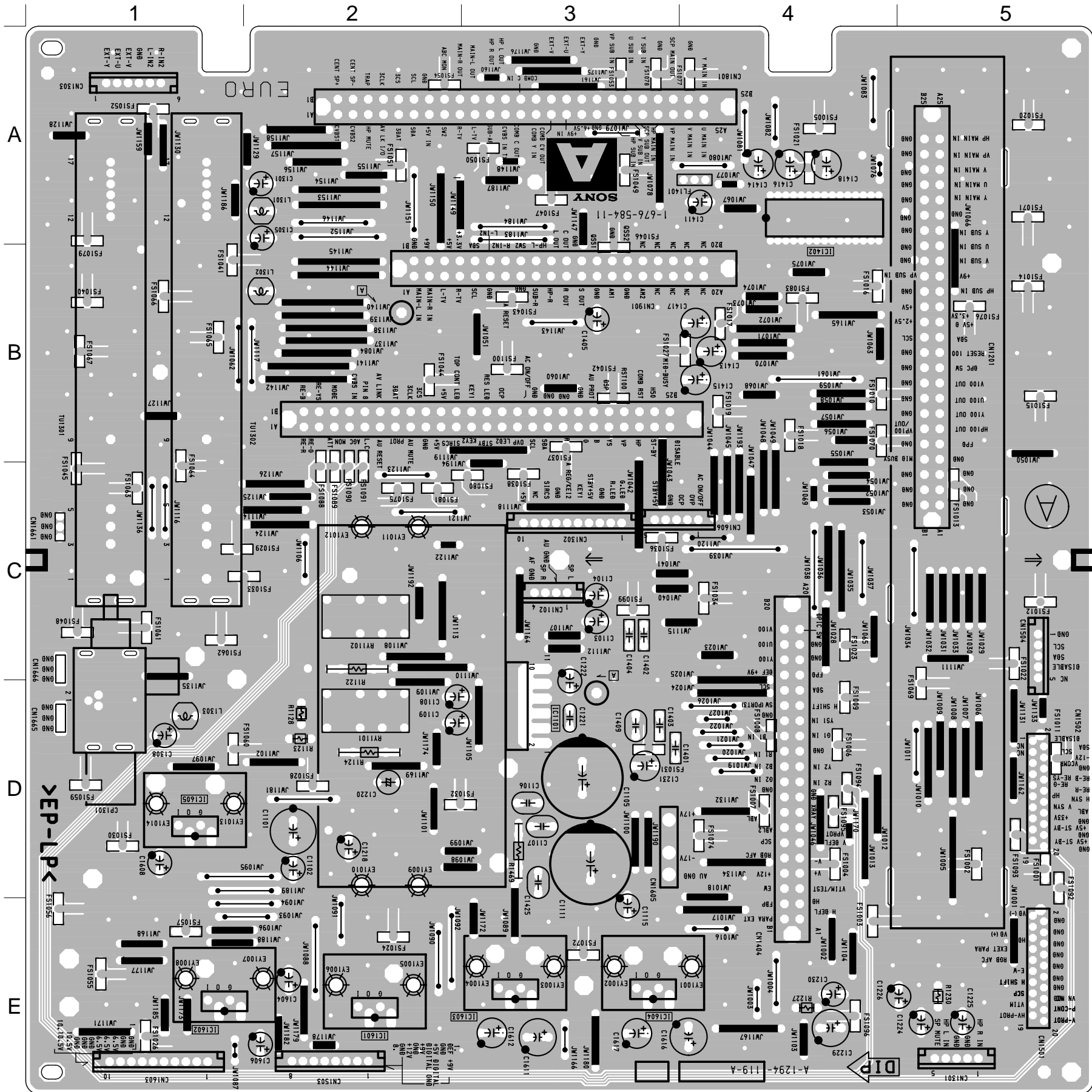


• A BOARD SEMICONDUCTOR LOCATION

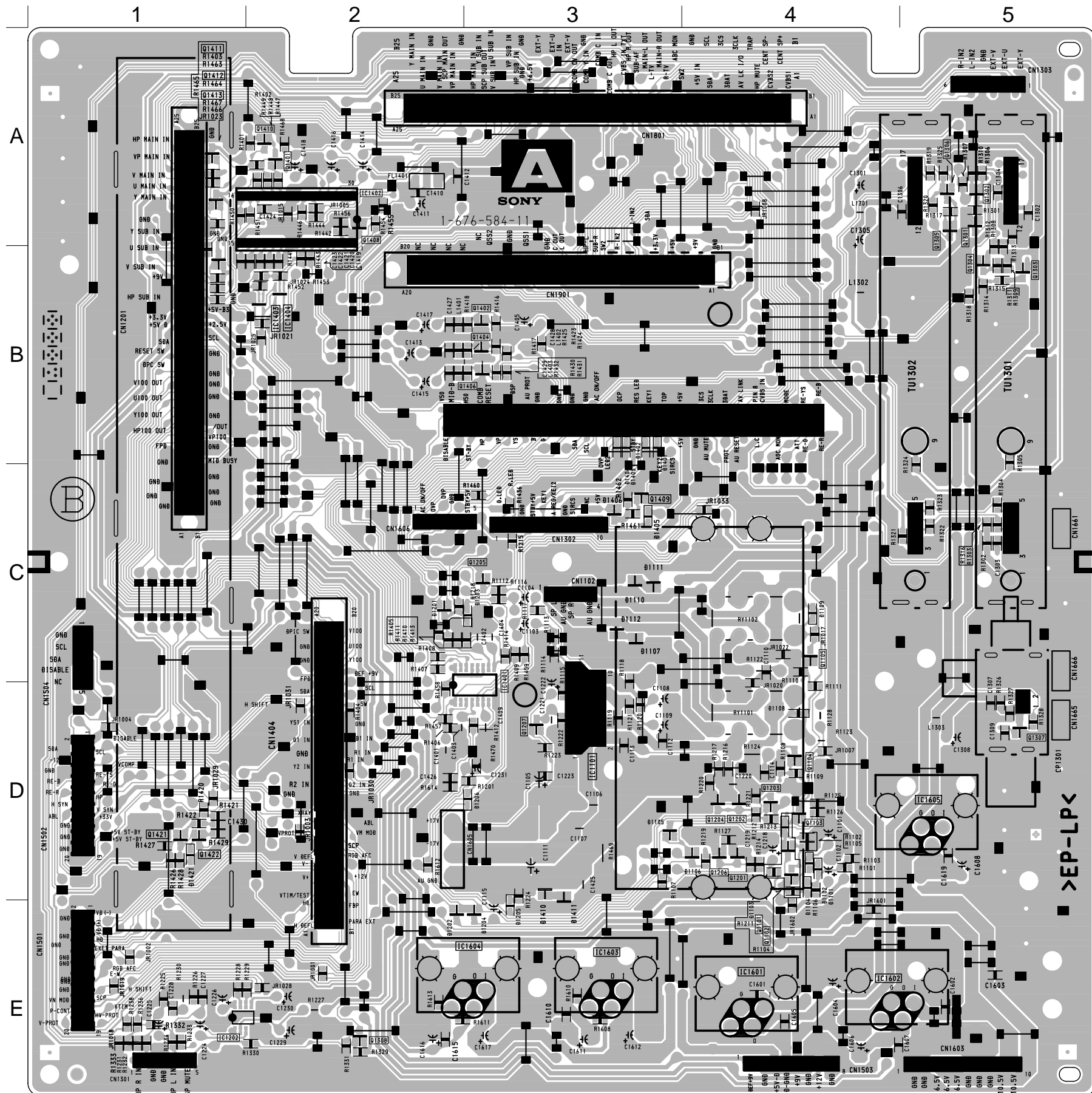
IC	Q1408	A-2	①
(Component Side)	(Conductor Side)		
D-3	D-3	C-3	②
D-3	D-3	A-2	③
A-4	A-2	A-1	④
E-2	E-4	A-1	⑤
E-1	E-4	D-1	⑥
E-3	E-3	D-1	⑦
E-3	E-3		
E-3	E-3		
D-1	D-5		
TRANSISTOR			
(Component Side)	(Conductor Side)	*	
Q1101	①	D1101	③
Q1102	②	D1102	④
Q1103	③	D1103	⑤
Q1104	④	D1104	⑥
Q1105	⑤	D1105	⑦
Q1201	⑥	D1106	⑧
Q1202	⑦	D1107	⑨
Q1203	⑧	D1108	⑩
Q1204	⑨	D1109	⑪
Q1205	⑩	D1110	⑫
Q1206	⑪	D1111	⑬
Q1207	⑫	D1201	⑭
Q1301	⑬	D1202	⑮
Q1302	⑭	D1203	⑯
Q1303	⑮	D1204	⑰
Q1304	⑯	D1205	⑱
Q1305	⑰	D1206	⑲
Q1306	⑱	D1401	⑳
Q1307	⑲	D1402	㉑
Q1308	㉑	D1403	㉒
Q1401	㉒	D1404	㉓
Q1402	㉓	D1405	㉔
Q1404	㉔	D1406	㉕
Q1406	㉕	D1410	㉖
		D1411	㉗
		D1421	㉘

\*: Refer to Terminal name of  
semiconductors in silk screen  
printed circuit (see page 75)

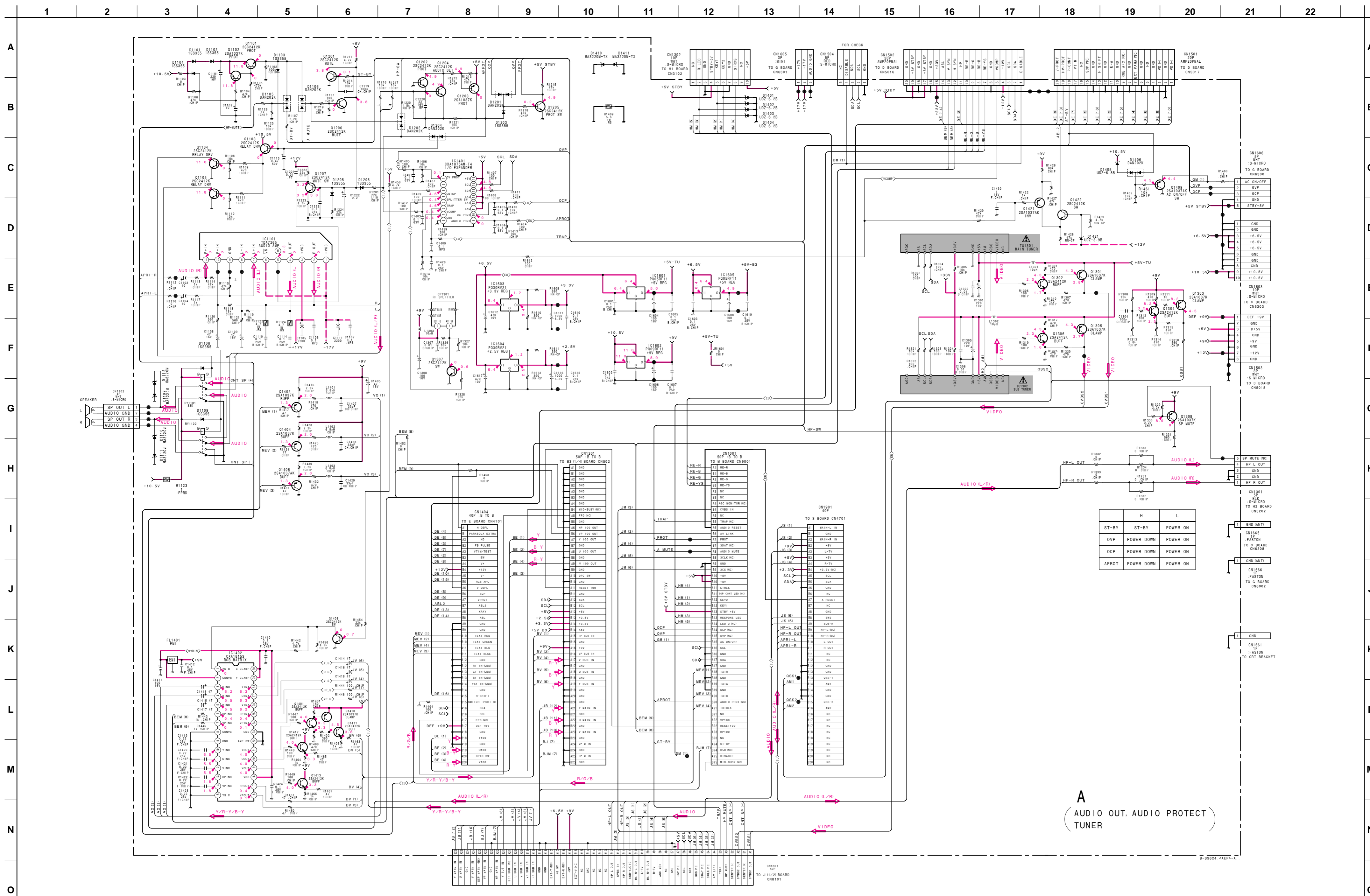
– A BOARD – (Component Side)



(Conductor Side)



### (3) Schematic Diagram of A Board

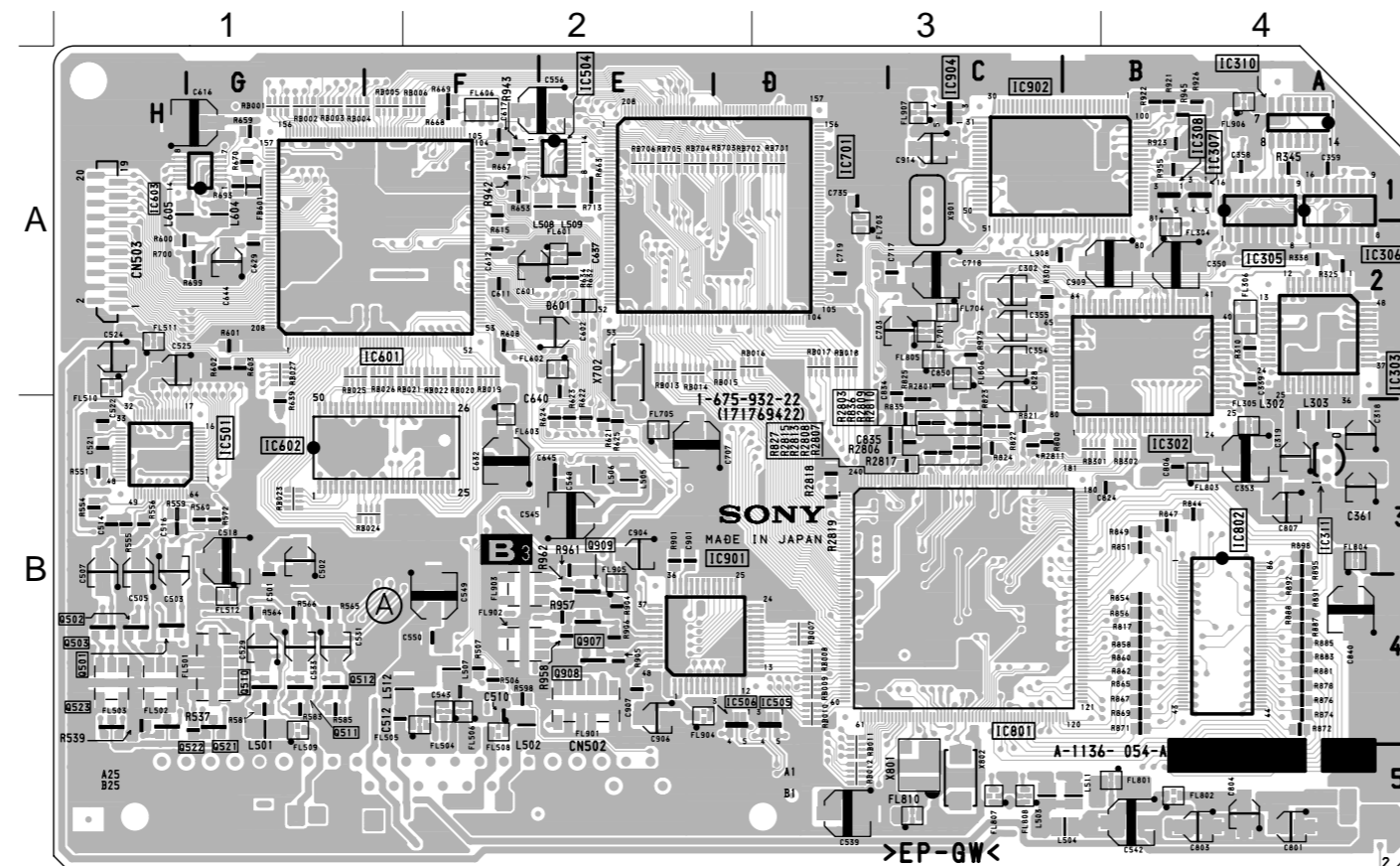


• B3 BOARD SEMICONDUCTOR LOCATION

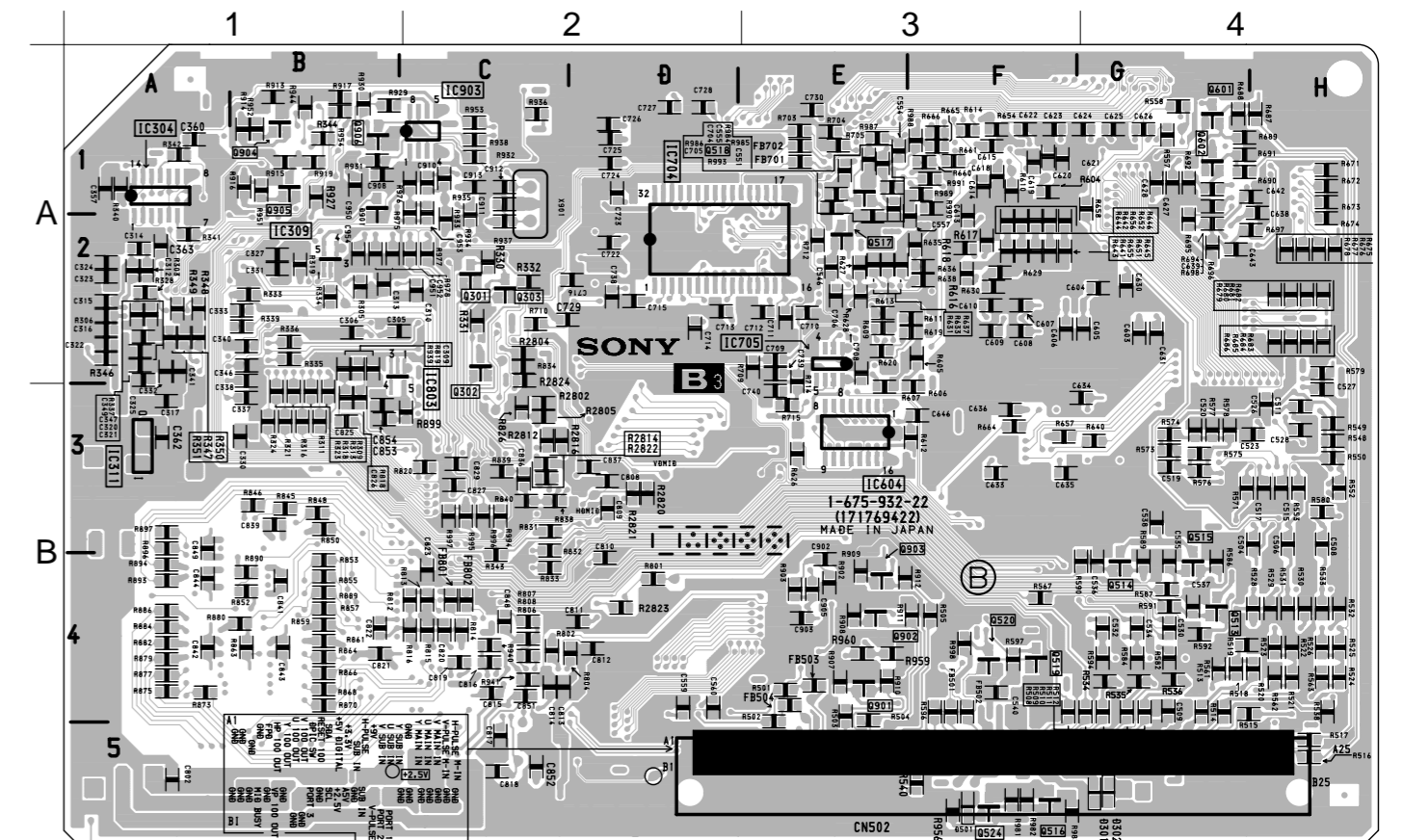
IC	TRANSISTOR	Q902	B-3	①
(Component Side)	(Component Side)	(Component Side)	(Component Side)	(Component Side)
IC302 A-4	Q301 A-2	Q903 A-2	B-3 A-1	①
IC303 A-4	Q302 A-2	Q904 A-2	B-3 A-1	②
IC304 A-4	Q303 A-2	Q905 A-2	B-3 A-1	③
IC305 A-4	Q304 A-2	Q906 A-2	B-3 A-1	④
IC306 A-4	Q305 A-2	Q907 A-2	B-3 A-1	⑤
IC307 A-4	Q306 A-2	Q908 A-2	B-3 A-1	⑥
IC308 A-4	Q307 A-2	Q909 A-2	B-3 A-1	⑦
IC309 A-4	Q308 A-2	Q910 A-2	B-3 A-1	⑧
IC310 A-4	Q309 A-2	Q911 A-2	B-3 A-1	⑨
IC311 A-4	Q310 A-2	Q912 A-2	B-3 A-1	⑩
IC501 B-1	Q501 B-1	Q502 B-1	B-3 A-1	⑪
IC504 A-2	Q503 B-1	Q504 B-1	B-3 A-1	⑫
IC505 B-3	Q505 B-1	Q506 B-1	B-3 A-1	⑬
IC506 B-2	Q507 B-1	Q508 B-1	B-3 A-1	⑭
IC601 A-1	Q509 B-1	Q510 B-1	B-3 A-1	⑮
IC602 B-1	Q511 B-1	Q512 B-1	B-3 A-1	⑯
IC603 A-1	Q513 B-1	Q514 B-1	B-3 A-1	⑰
IC604 A-1	Q515 B-1	Q516 B-1	B-3 A-1	⑱
IC801 B-3	Q801 A-4	Q802 A-4	B-3 A-1	⑲
IC802 B-4	Q803 A-4	Q804 A-4	B-3 A-1	⑳
IC901 B-2	Q901 A-4	Q902 A-4	B-3 A-1	㉑

※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 75)

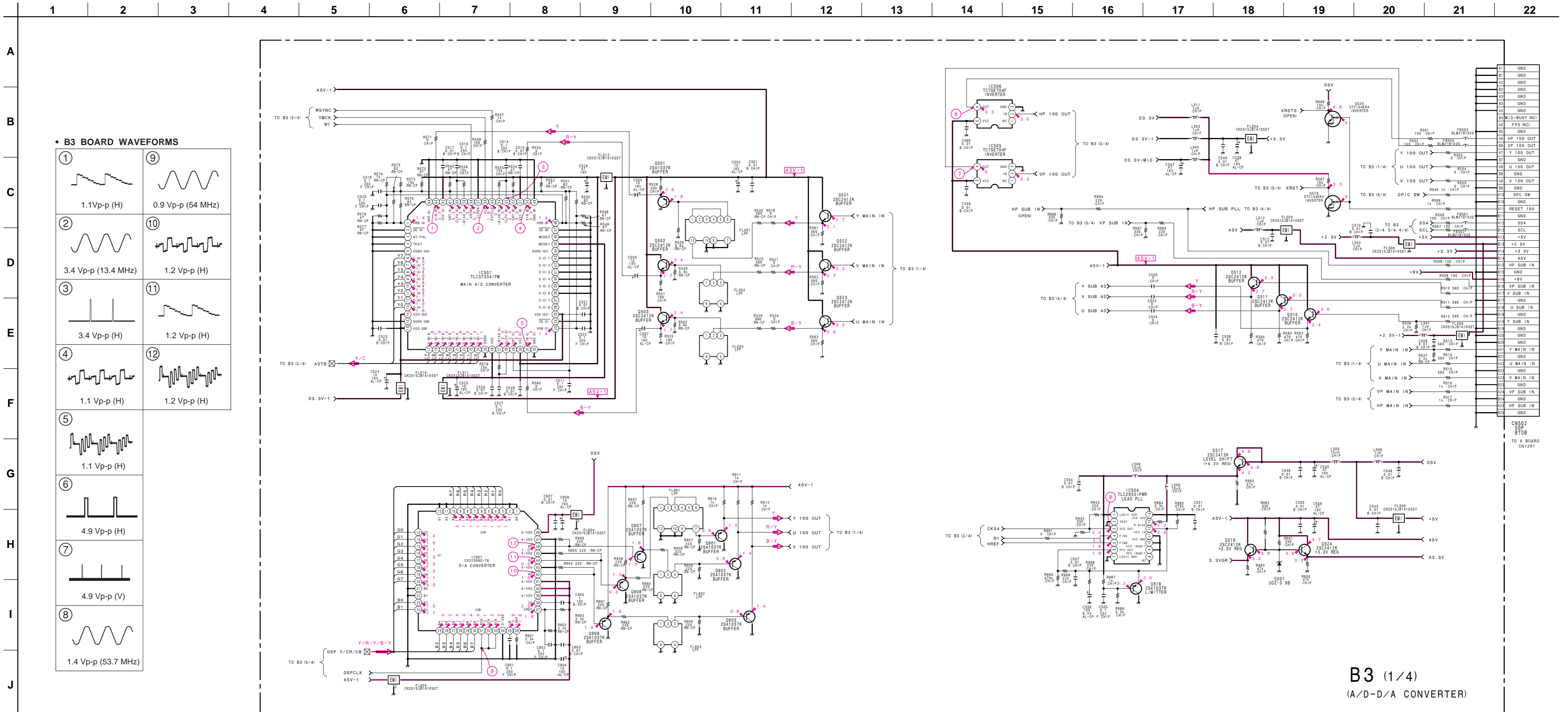
– B3 Board – (Component Side)



(Conductor Side)

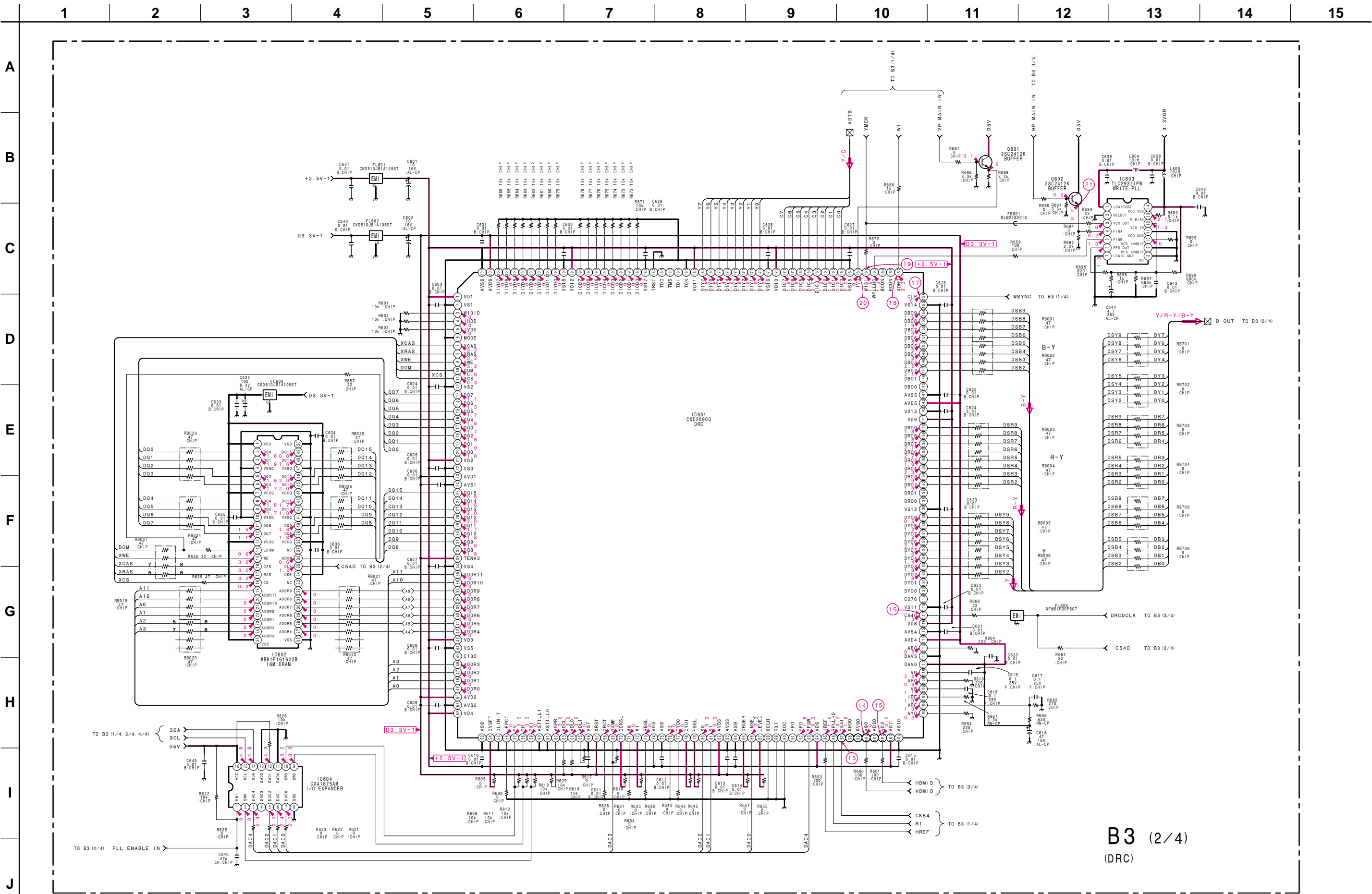


(4) Schematic Diagram of B3 (1/4) Board



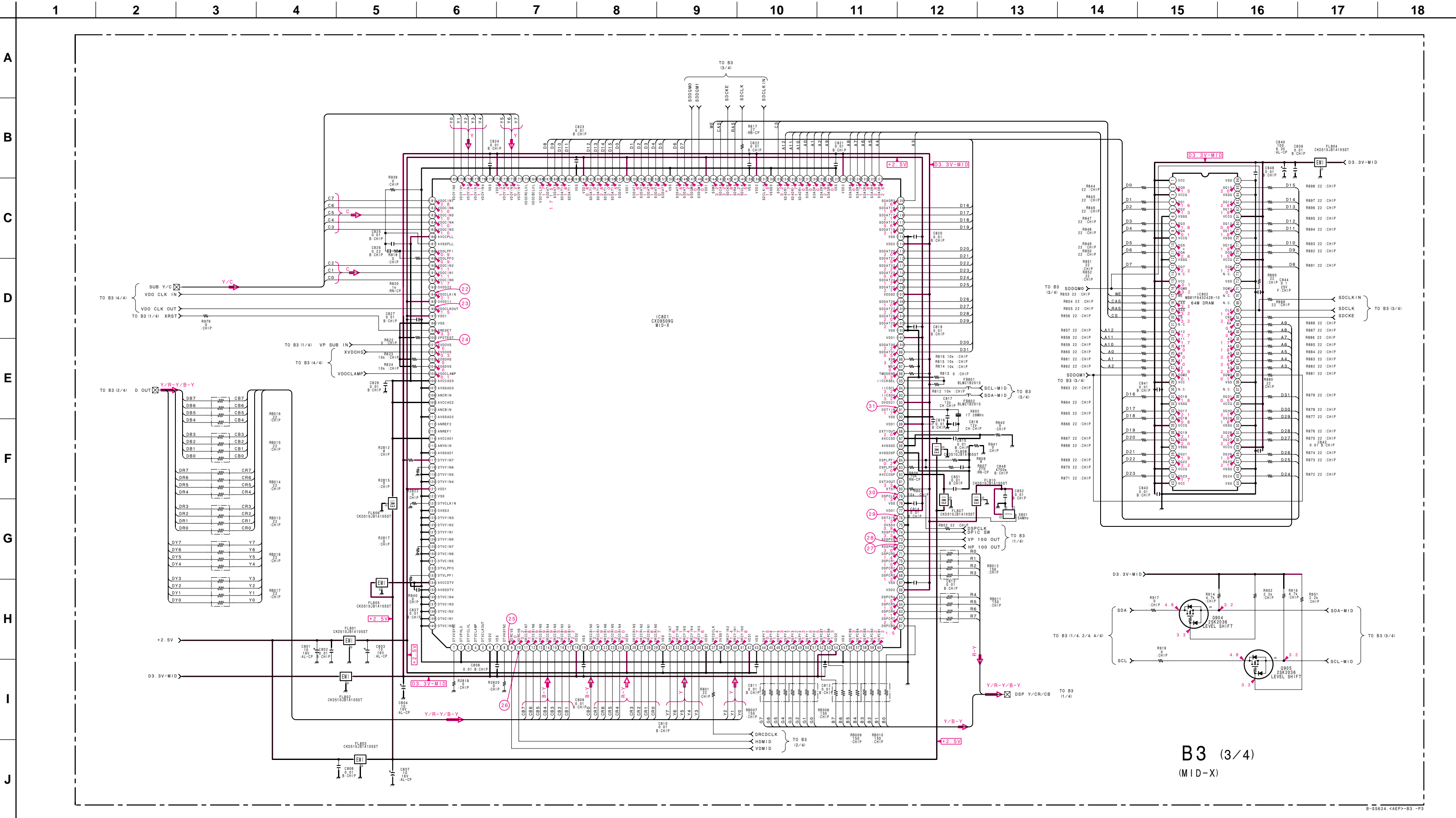
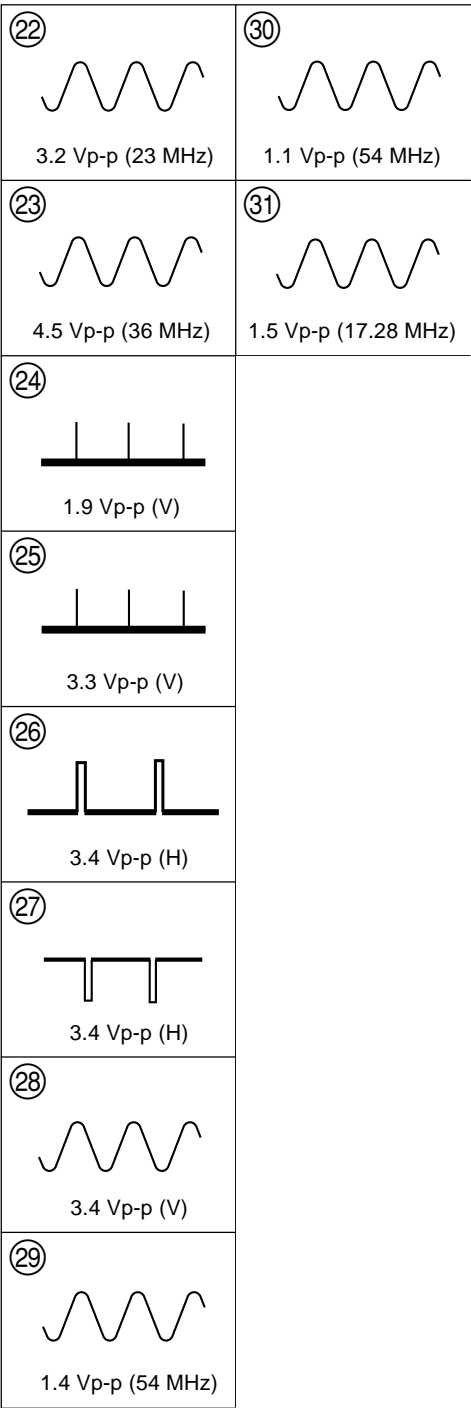
**B3 (1/4)**  
(A/D-D/A CONVERTER)

(5) Schematic Diagram of B3 (2/4) Board

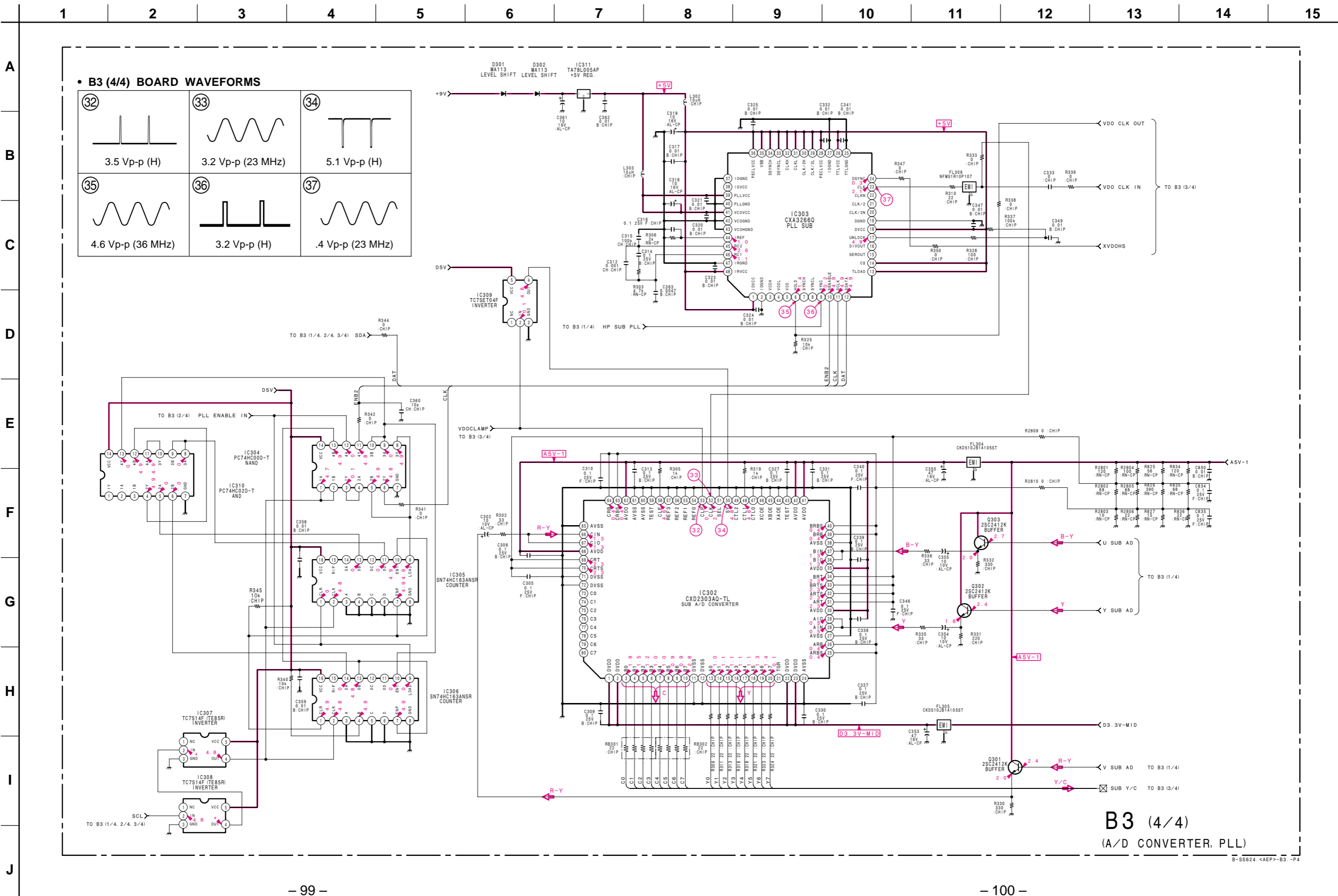


(6) Schematic Diagram of B3 (3/4) Board

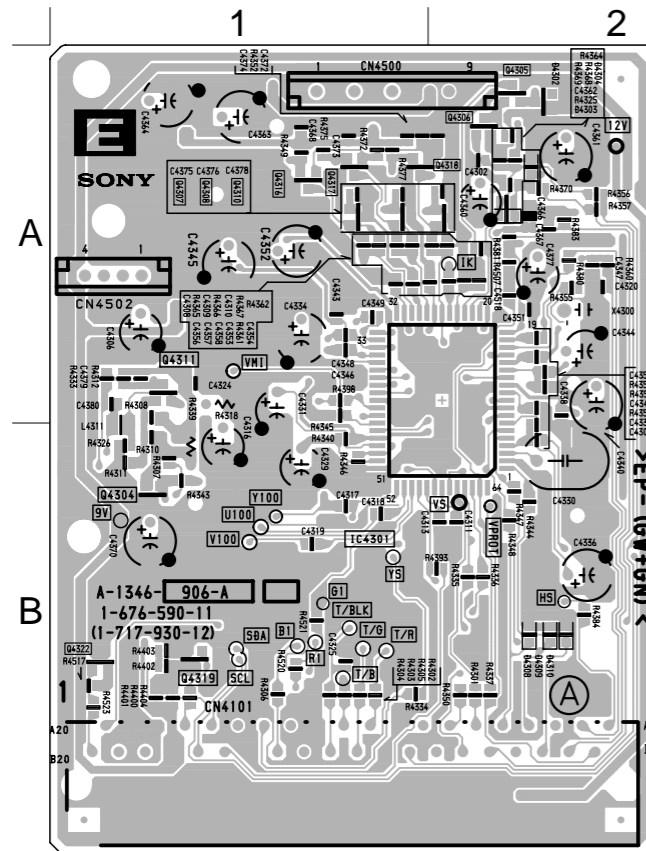
• B3 (3/4) BOARD WAVEFORMS



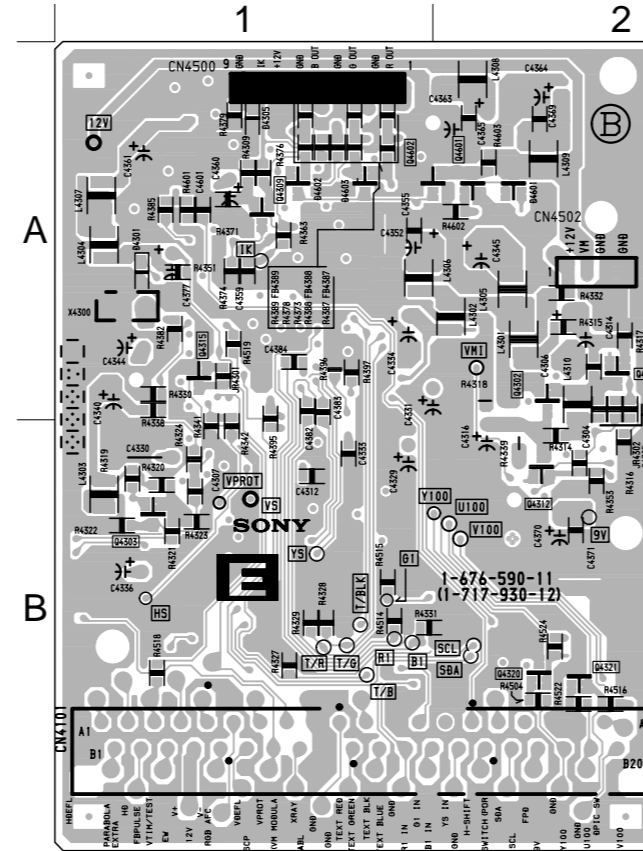
(7) Schematic Diagram of B3 (4/4) Board



**– E BOARD – (Component Side)**



**(Conductor Side)**

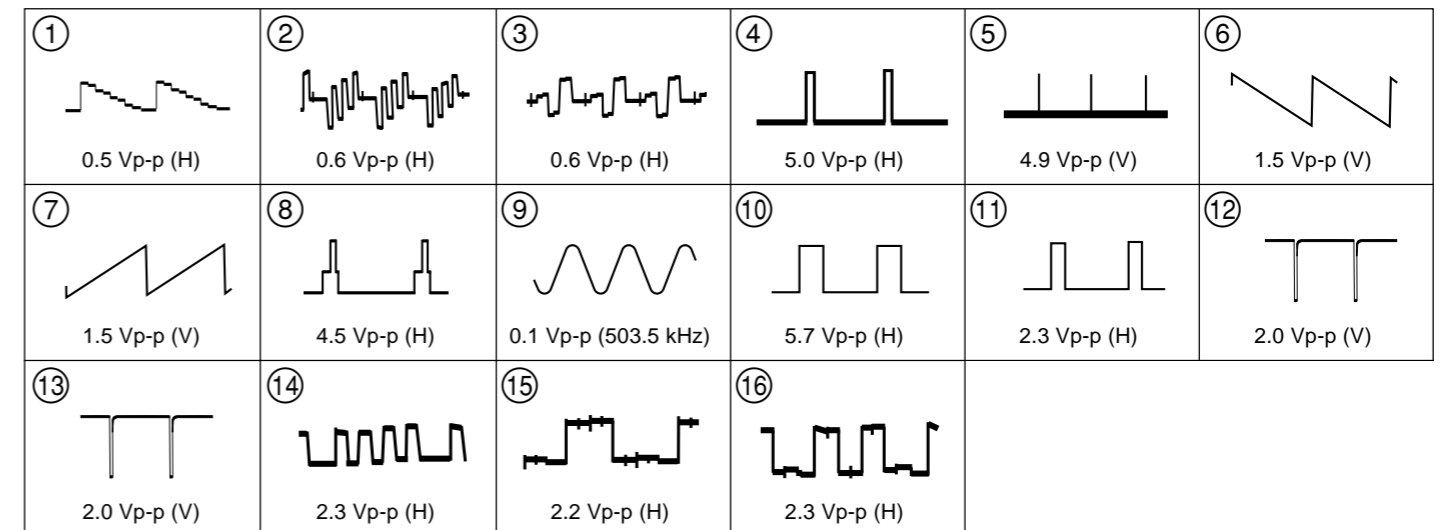


- **E BOARD SEMICONDUCTOR LOCATION**

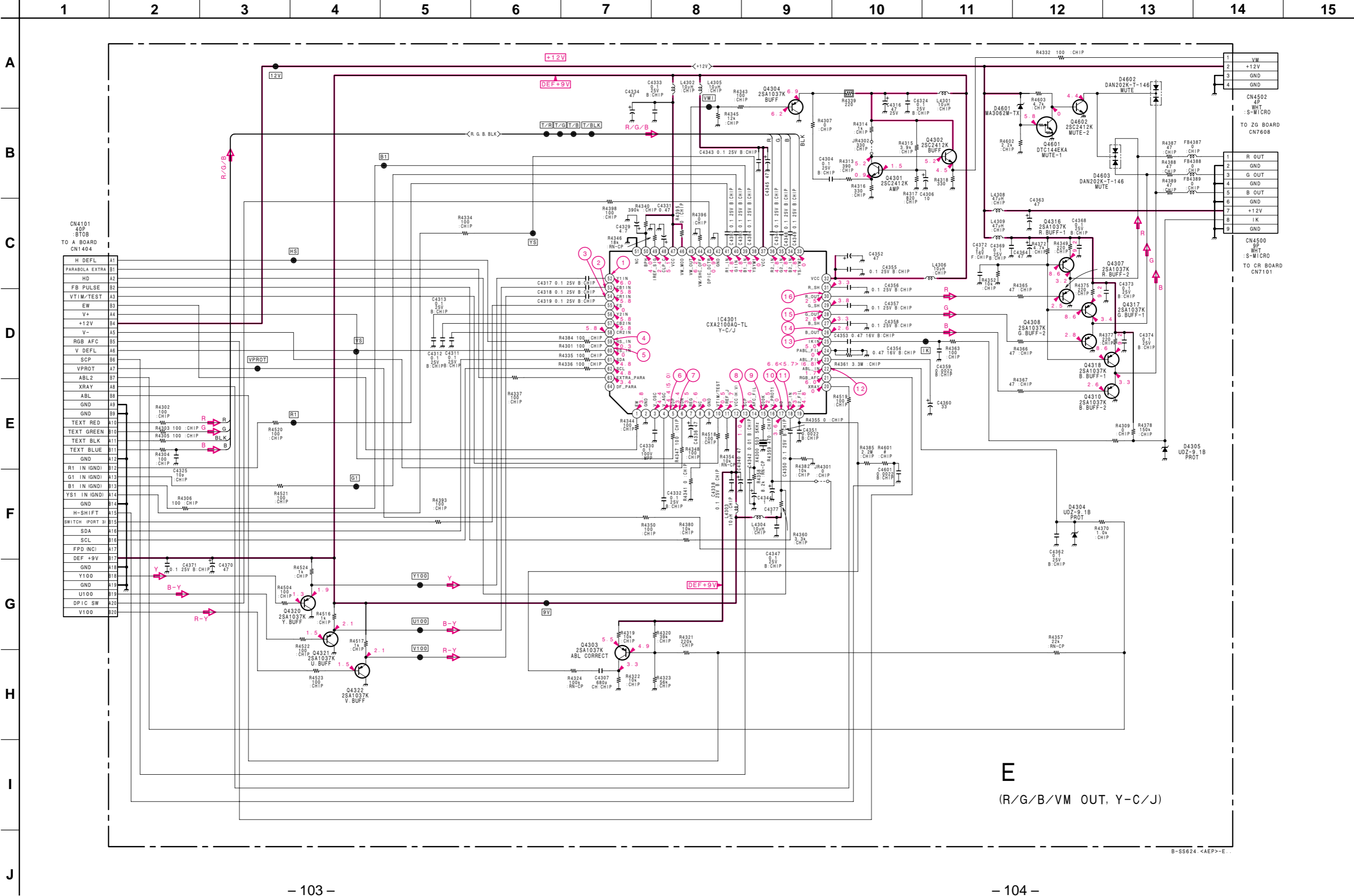
IC		Q4321	B-2	③
IC4301	(Component Side) (Conductor Side)	Q4322	B-1	③
		Q4601	B-2	③
		Q4602	A-1	③
TRANSISTOR		DIODE		
Q4301 Q4302 Q4303 Q4304 B-1 Q4307 A-1 Q4308 A-1 Q4310 A-1 Q4316 A-1 Q4317 A-1 Q4318 A-2 Q4320 B-2	(Component Side) (Conductor Side) *	D4304	A-2	③
		D4305	A-1	③
		D4601	A-2	③
		D4602	A-1	③
		D4603	A-1	③
		CRYSTAL		
		(Component Side) (Conductor Side)	X4300	A-1

**\*: Refer to Terminal name of  
semiconductors in silk screen  
printed circuit (see page 75)**

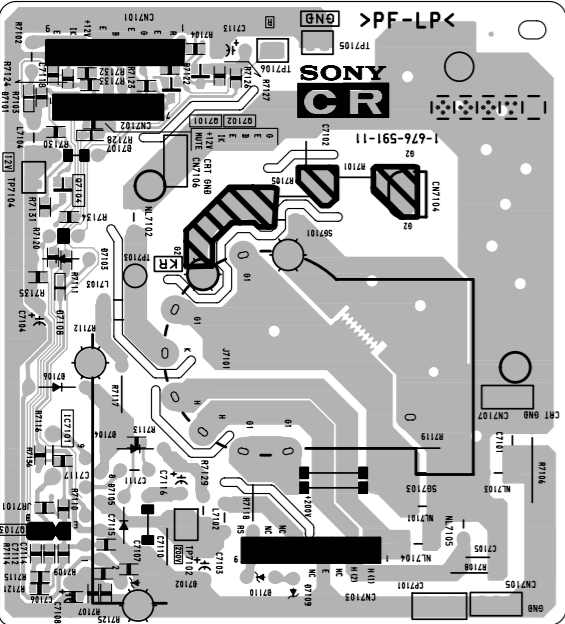
- E BOARD WAVEFORMS



(8) Schematic Diagram of E Board



– CR BOARD –

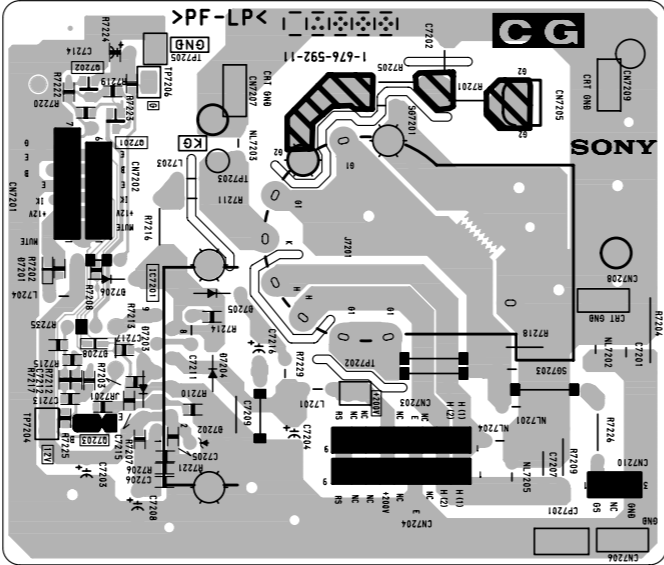


CR BOARD  
Terminal name of semiconductors  
in silk screen printed circuit (\*)

Ref.	*
D7108	③
D7101, 7104	①

※: Refer to Terminal name of  
semiconductors in silk screen  
printed circuit (see page 75)

– CG BOARD –

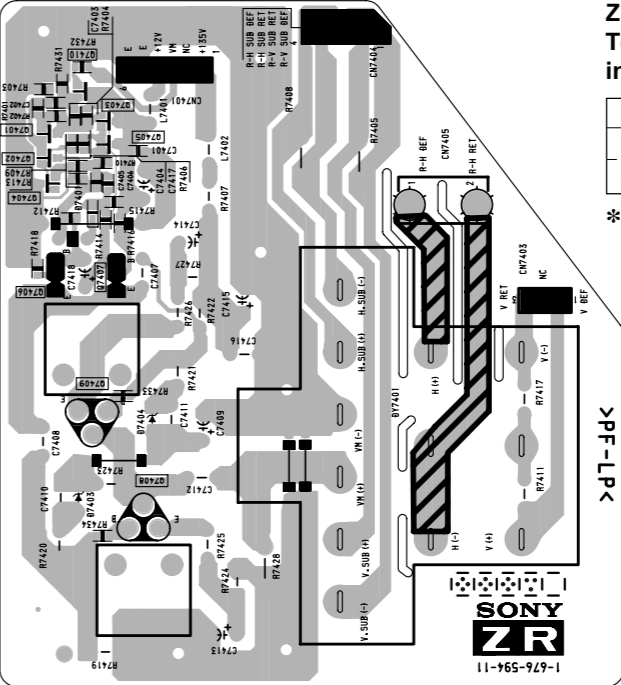


CG BOARD  
Terminal name of semiconductors  
in silk screen printed circuit (\*)

Ref.	*
D7208	③
D7201, 7202	①

※: Refer to Terminal name of  
semiconductors in silk screen  
printed circuit (see page 75)

– ZR BOARD –

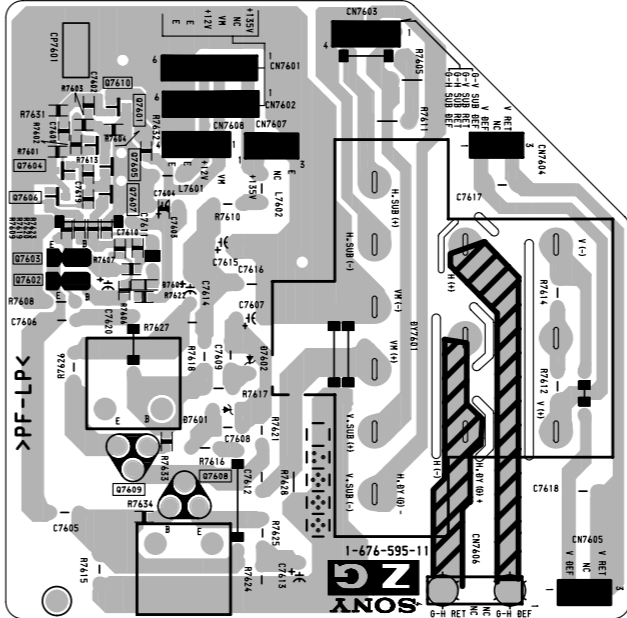


ZR BOARD  
Terminal name of semiconductors  
in silk screen printed circuit (\*)

Ref.	*
D7401	③
Q7401 – 7405, 7410	①

※: Refer to Terminal name of  
semiconductors in silk screen  
printed circuit (see page 75)

– ZG BOARD –

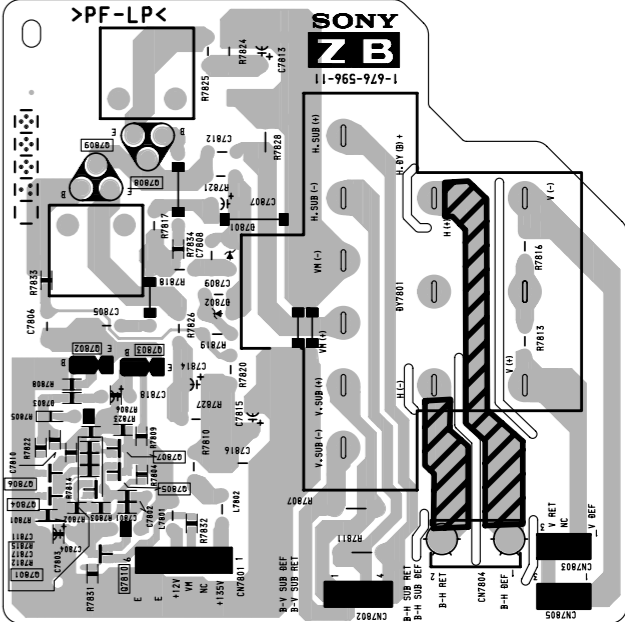


ZB BOARD  
Terminal name of semiconductors  
in silk screen printed circuit (\*)

Ref.	*
D7603	③
Q7601, 7604 – 7607, Q7610	①

※: Refer to Terminal name of  
semiconductors in silk screen  
printed circuit (see page 75)

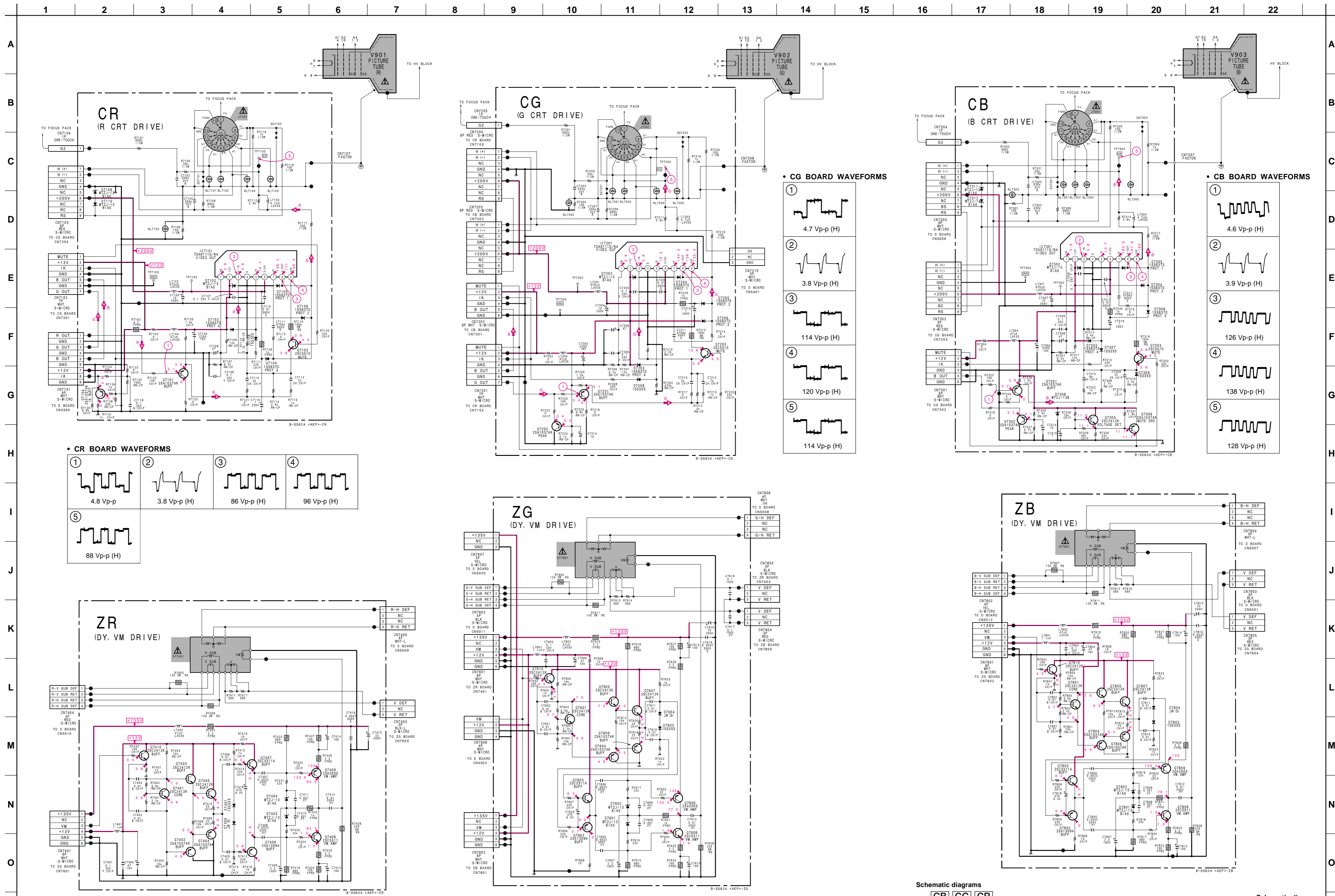
– ZB BOARD –



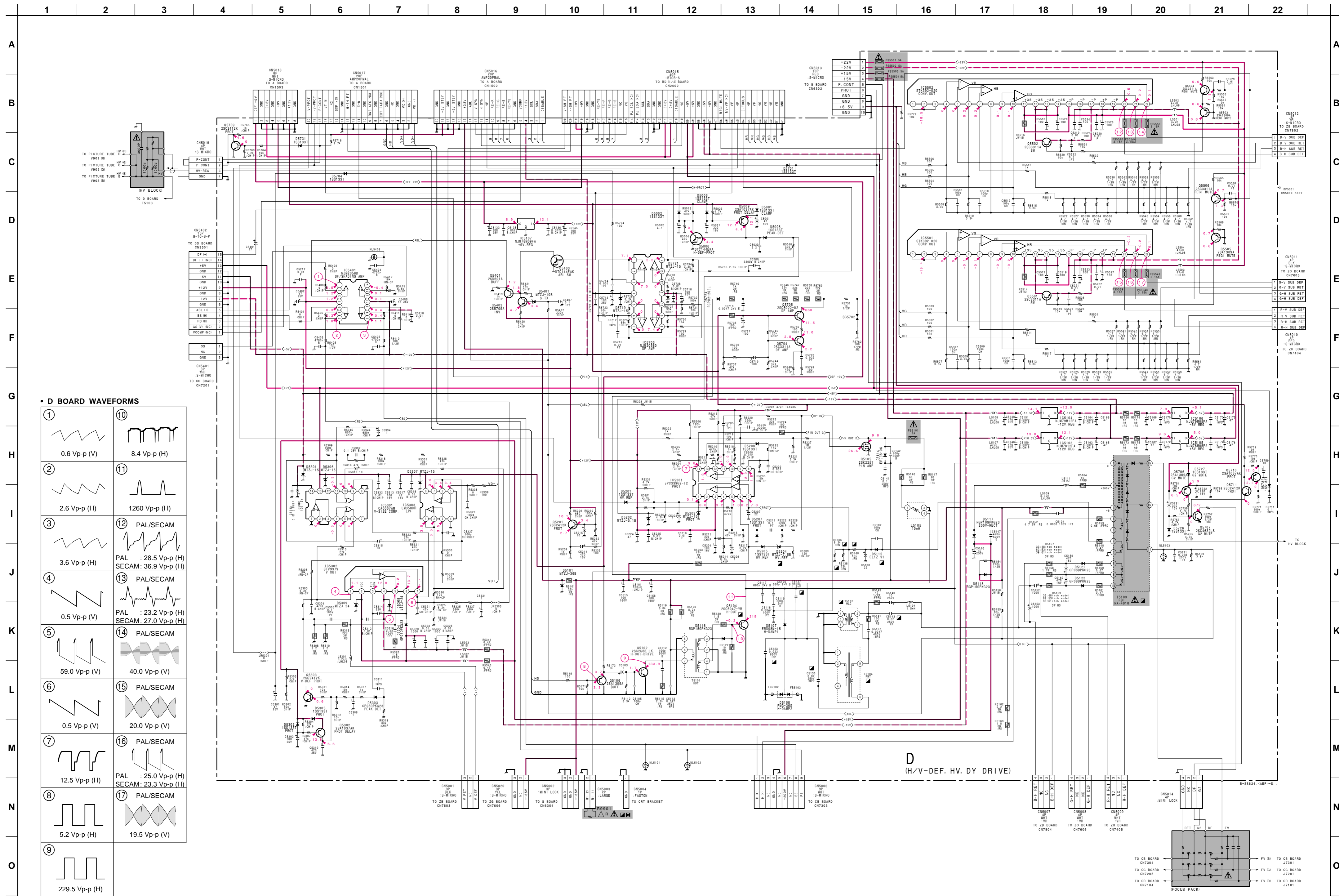
ZB BOARD  
Terminal name of semiconductors  
in silk screen printed circuit (\*)

Ref.	*
D7803	③
Q7801, 7804 – 7807, Q7810	①

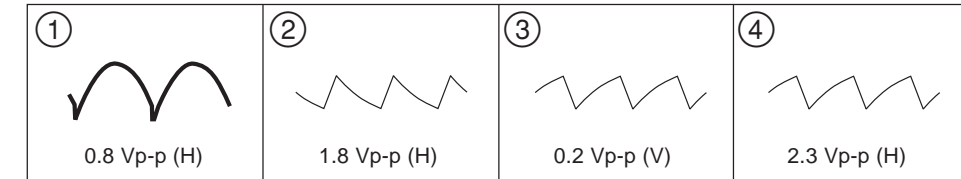
※: Refer to Terminal name of  
semiconductors in silk screen  
printed circuit (see page 75)



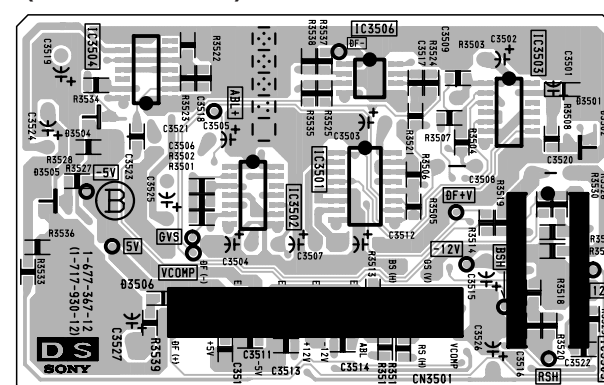
**(10) Schematic Diagram of D Board**



**D** [H/V-DEF, HV,  
DY DRIVE]      **DS** [SHADING]

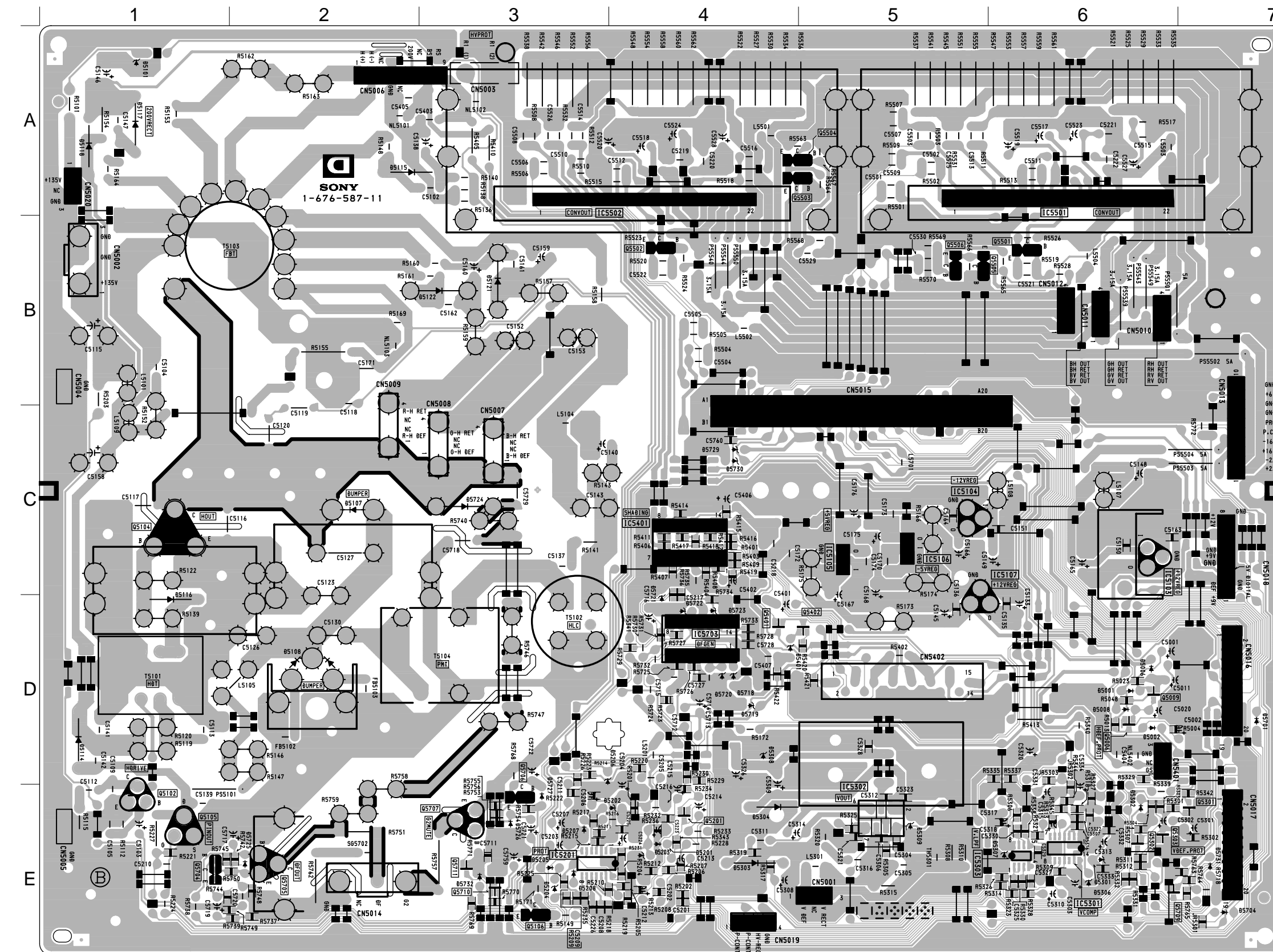


**(Conductor Side)**



Ref.	*
D3501, D3503	③
D3502	⑩

1



IC		DIODE	
IC5103	C-6	D5001	D-6 — *
IC5104	C-5	D5002	D-6 —
IC5105	C-5	D5006	D-6 —
IC5106	C-5	D5008	D-6 —
IC5107	C-6	D5101	A-1 —
IC5201	E-3	D5107	C-2 —
IC5301	E-6	D5108	D-2 —
IC5302	E-5	D5114	D-1 —
IC5303	E-6	D5115	A-2 —
IC5401	C-4	D5116	D-1 —
IC5501	A-6	D5117	A-1 —
IC5502	A-4	D5118	A-1 —
IC5703	D-4	D5121	B-3 —
		D5122	B-3 —
TRANSISTOR		D5201	E-4 —
		D5202	E-4 —
		D5203	E-4 —
		D5204	E-3 —
Q5006	D-6 — *	D5205	E-3 —
Q5009	D-6 — ①	D5207	E-3 —
Q5102	E-1 —	D5208	E-3 —
Q5104	C-5 —	D5301	E-6 —
Q5105	E-1 —	D5302	E-6 —
Q5106	E-3 —	D5303	E-4 —
Q5201	E-4 — ①	D5304	E-4 —
Q5302	E-6 — ①	D5305	—
Q5303	E-6 — ①	D5306	E-6 —
Q5401	D-4 — ①	D5307	E-6 —
Q5402	D-5 — ①	D5308	D-4 —
Q5403	—	D5309	E-5 —
Q5501	B-6 —	D5401	D-4 —
Q5502	B-4 —	D5701	D-7 —
Q5503	A-5 —	D5704	E-7 —
Q5504	A-5 —	D5719	D-4 —
Q5505	B-5 —	D5721	D-4 —
Q5506	B-5 —	D5724	C-3 —
Q5704	E-1 —	D5726	E-3 —
Q5705	E-2 —	D5727	E-3 —
Q5706	E-3 —	D5731	E-7 —
Q5707	E-3 —	D5732	E-3 —
Q5709	E-7 — ①		
Q5710	E-3 — ①		
Q5711	E-3 — ①		

Schematic diagram  
 ← **DS** board

Schematic diagram

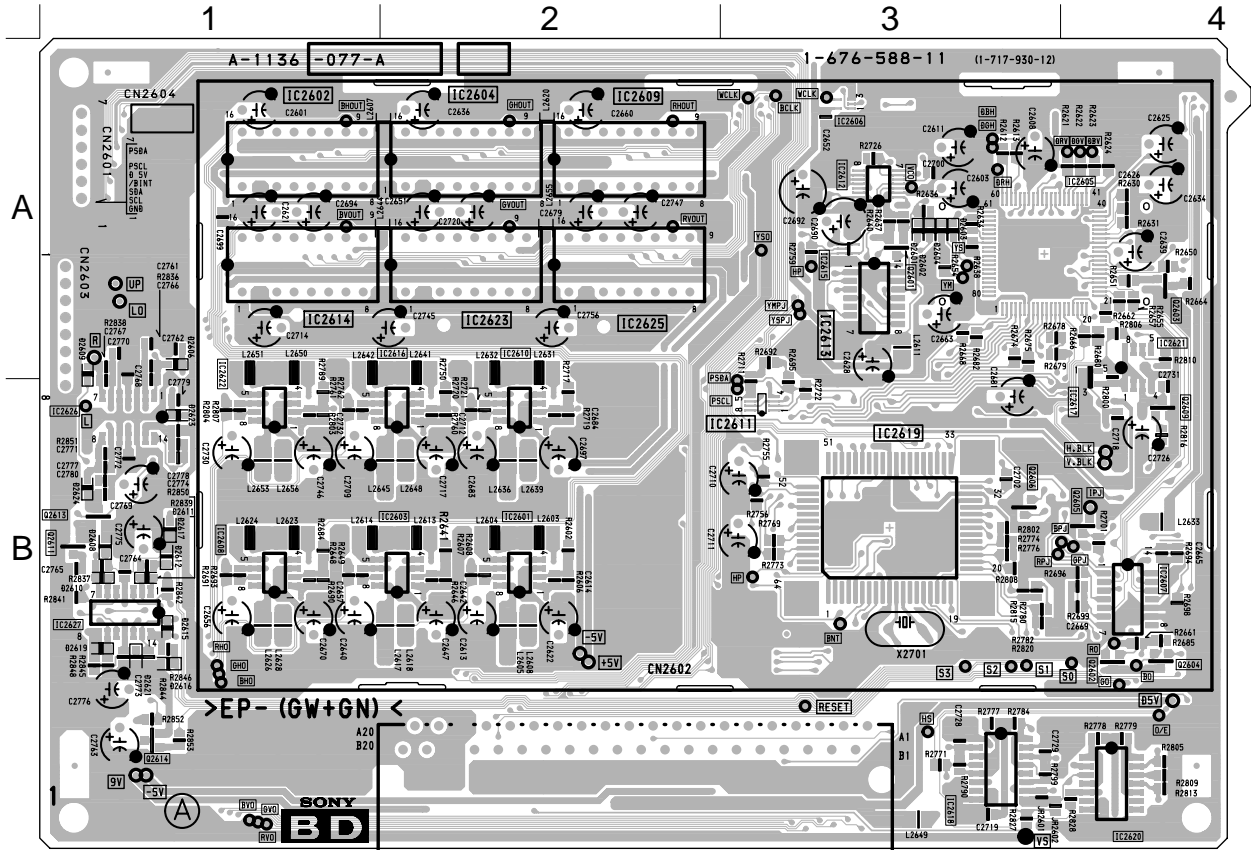
**BD** (2/2) board ➡

• BD BOARD SEMICONDUCTOR LOCATION

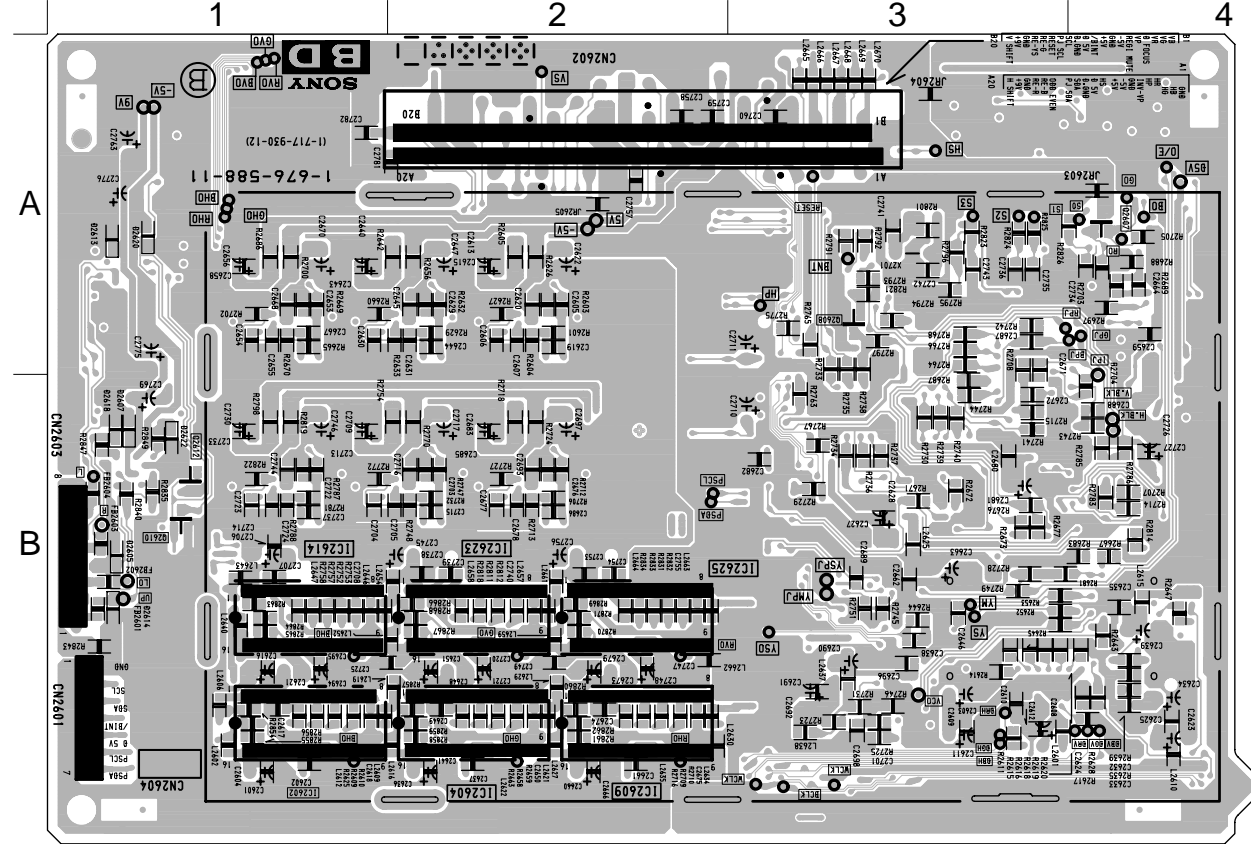
IC		Q2608	A-3	①
(Component Side)	(Conductor Side)	Q2610	B-1	①
		Q2611	B-1	②
IC2601	B-2	Q2612	B-1	①
IC2602	A-1	Q2613	B-1	②
IC2603	B-2	Q2614	B-1	②
IC2604	A-2	DIODE		
IC2605	A-4	(Component Side)	(Conductor Side)	*
		IC2606	A-3	③
IC2607	B-4	IC2608	B-1	③
IC2608	B-1	IC2609	A-2	③
IC2609	A-2	IC2610	B-2	③
IC2610	B-2	IC2611	B-3	③
IC2611	B-3	IC2612	A-3	③
IC2612	A-3	IC2613	A-3	③
IC2613	A-3	IC2614	A-1	③
IC2614	A-1	IC2606	B-1	③
IC2615	A-3	IC2607	B-1	③
IC2616	B-2	IC2608	B-1	③
IC2617	B-4	IC2609	A-1	③
IC2618	B-3	IC2610	B-1	③
IC2619	B-3	IC2611	B-1	③
IC2620	B-4	IC2612	B-1	③
IC2621	A-4	IC2613	B-1	③
IC2622	B-1	IC2614	A-1	③
IC2623	A-2	IC2615	B-1	③
IC2625	A-2	IC2616	B-1	③
IC2626	B-1	IC2617	B-1	③
IC2627	B-1	IC2618	B-1	③
TRANSISTOR		IC2619	B-1	③
(Component Side)	(Conductor Side)	IC2620	A-1	③
		IC2621	B-1	③
Q2601	A-3	IC2622	B-1	③
Q2602	B-4	IC2623	B-1	③
Q2603	A-4	IC2624	B-1	③
Q2604	B-4	CRYSTAL		
Q2605	B-4	(Component Side)	(Conductor Side)	
Q2606	B-3	X2701	B-3	③
Q2607	A-4			

※: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 75)

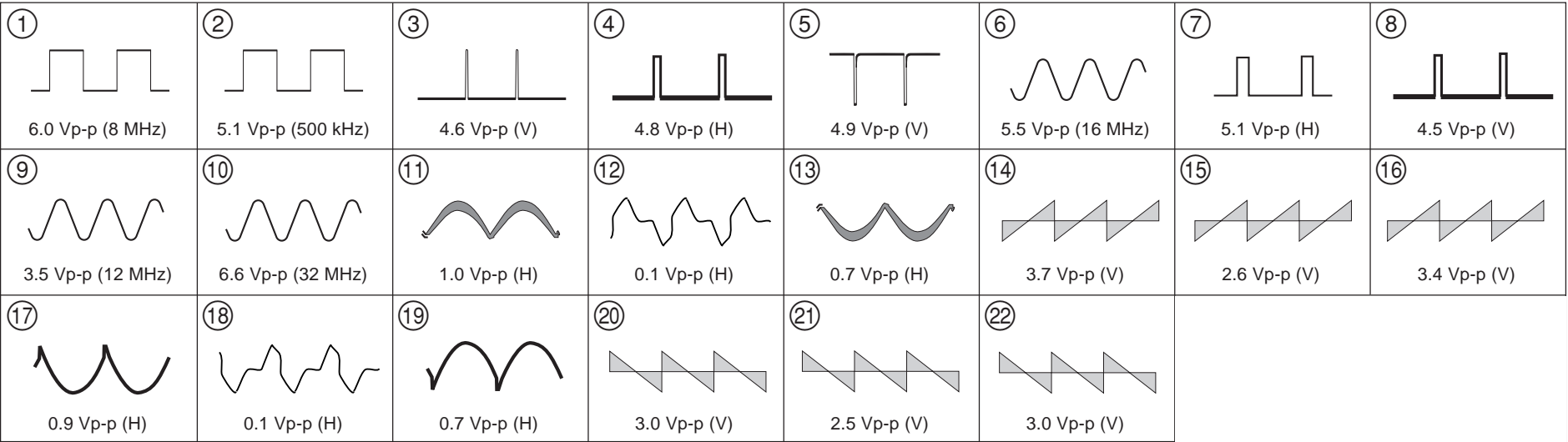
– BD BOARD – (Component Side)



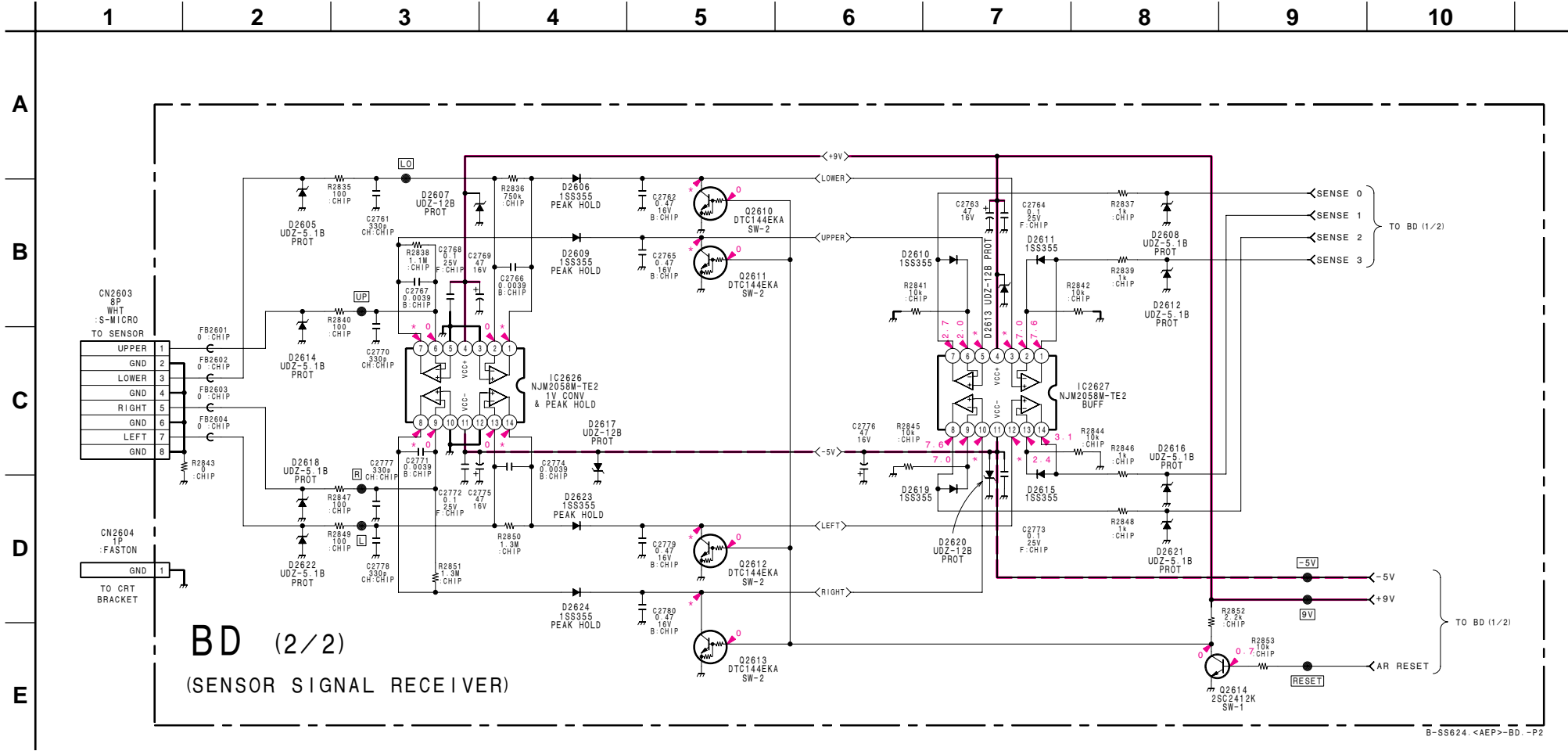
(Conductor Side)



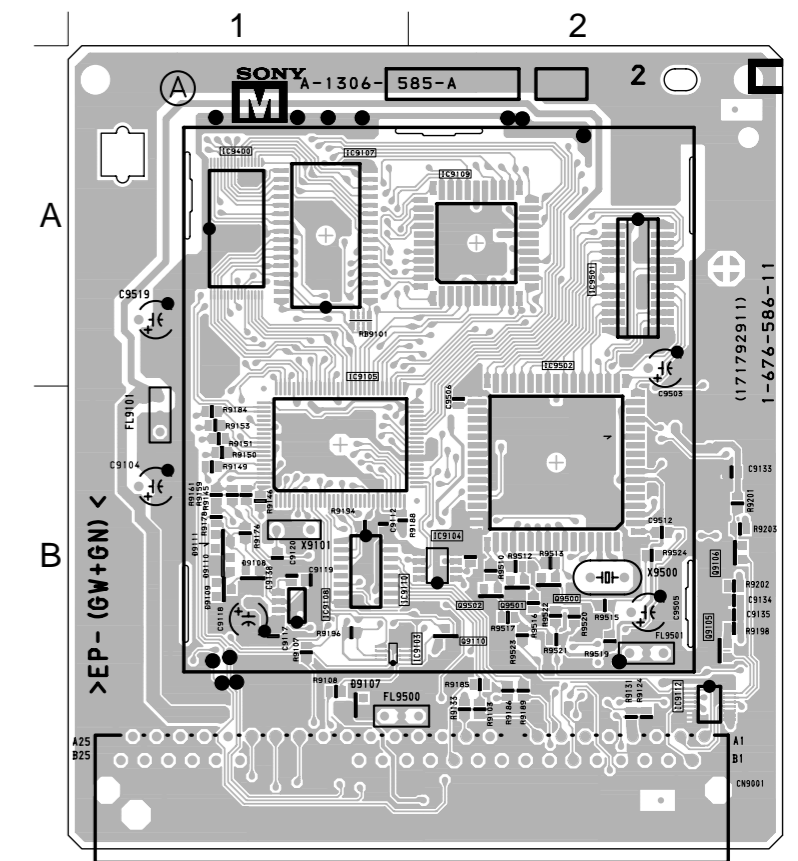
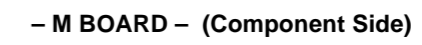
• BD (1/2) BOARD WAVEFORMS



(12) Schematic Diagram of BD (2/2) Board

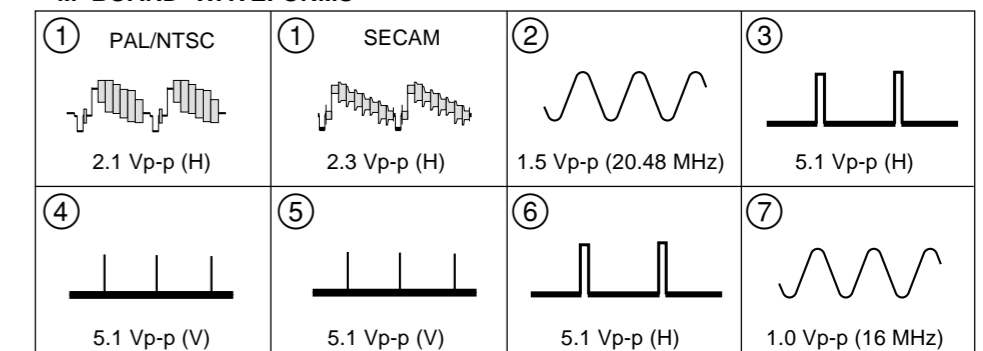


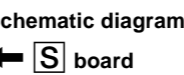




IC		TRANSISTOR			DIODE		
(Component) Side	(Conductor) Side	(Component) Side	(Conductor) Side	*	(Component) Side	(Conductor) Side	*
IC9100	A-1	Q9100	A-2	①	D9100	A-2	①
IC9103	B-1	Q9101	A-2	①	D9101	A-1	②
IC9104	B-2	Q9102	A-2	①	D9102	A-2	③
IC9105	B-1	Q9103	A-2	①	D9103	A-2	③
IC9108	B-1	Q9104	A-2	①	D9104	A-2	③
IC9109	A-2	Q9105	B-2	②	D9105	A-2	③
IC9110	B-1	Q9106	B-2	②	D9107	B-1	⑤
IC9111	B-2	Q9110	B-2	②	D9108	B-1	⑤
IC9112	B-2	Q9500	B-2	②	D9109	B-1	⑤
IC9400	A-1	Q9501	B-2	②	D9110	B-1	⑤
IC9500	B-2	Q9502	B-2	②	D9111	B-1	⑤
IC9501		Q9503		②			
IC9502	A-2	Q9504	A-2	①			
					CRYSTAL		
					(Component) Side	(Conductor) Side	
					X9101	B-1	
					X9500	B-2	

- M BOARD WAVEFORMS





IC		DIODE	
(Component) Side	(Conductor) Side	(Component) Side	(Conductor) Side
IC4702	B-1	D4701	B-2
IC4703	B-1	D4702	A-1
IC4704	A-1	D4703	B-1
IC4705	A-1	D4704	B-1
		D4705	A-1
		D4706	A-1
		D4707	A-1
TRANSISTOR		CRYSTAL	
(Component) Side	(Conductor) Side	(Component) Side	(Conductor) Side
Q4701	B-1	X4701	B-2
Q4702	B-2		
Q4703	B-1		
Q4706	A-1		
Q4707	A-1		
Q4708	A-1		
Q4709	B-1		
Q4710	A-1		
Q4711	B-1		
Q4712	B-1		

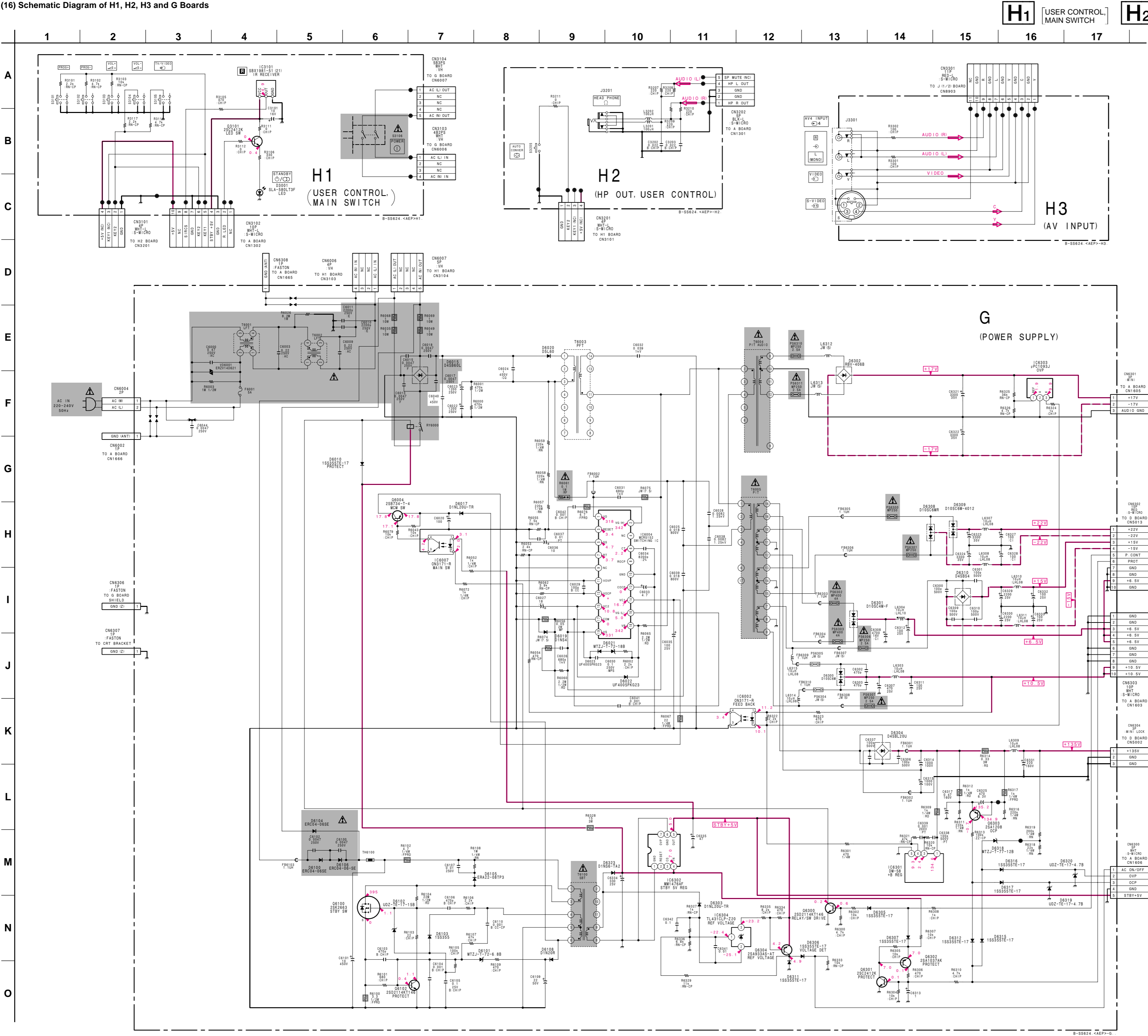
※: Refer to Terminal name of  
semiconductors in silk screen  
printed circuit (see page 75)

**Schematic diagram**

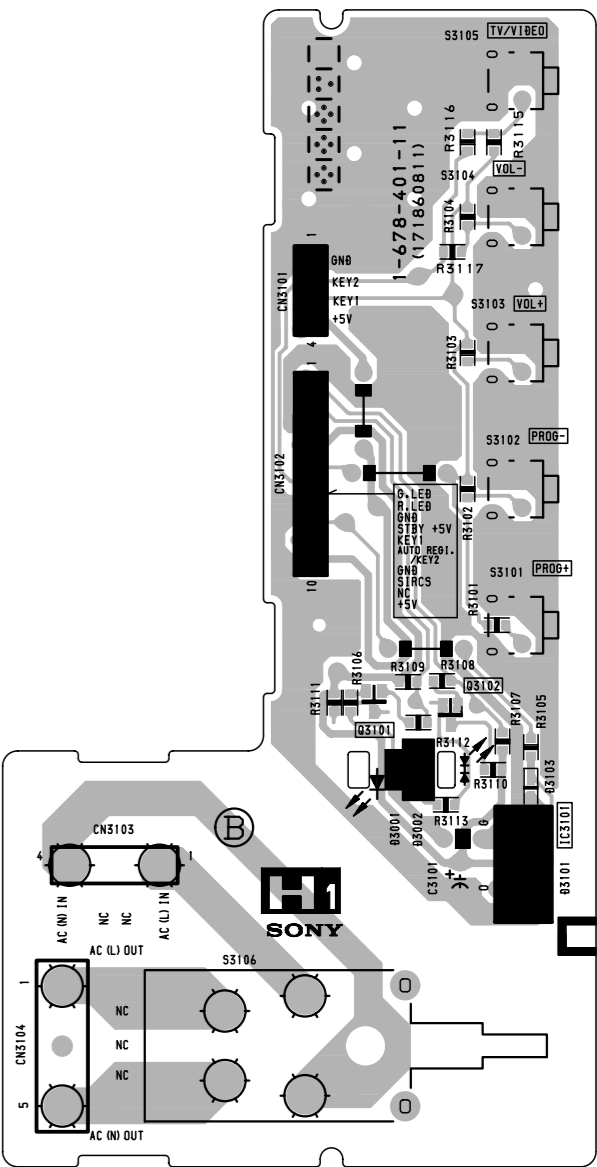
$H_1$   $H_2$   $H_3$

$G$  board  $\rightarrow$

(16) Schematic Diagram of H1, H2, H3 and G Boards



— H1 BOARD —

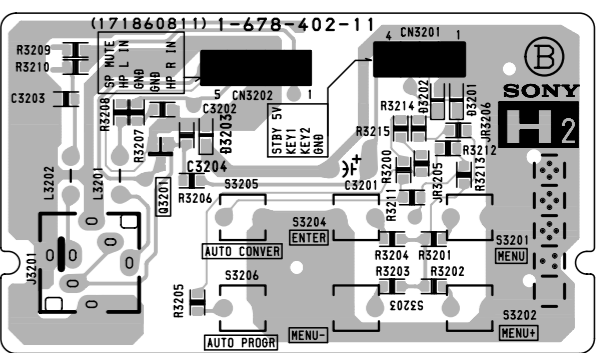


H1 BOARD  
Terminal name of semiconductors  
in silk screen printed circuit (\* )

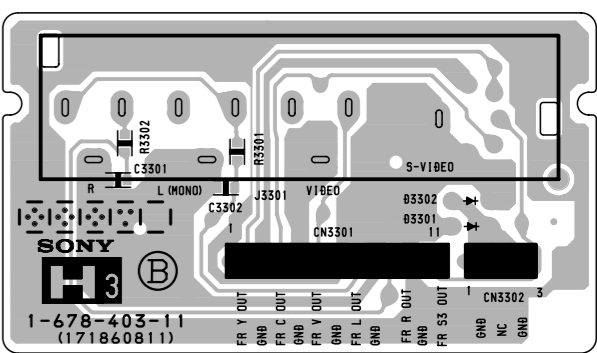
Ref.	*
Q3101	①

※: Refer to Terminal name of  
semiconductors in silk screen  
printed circuit (see page 75)

— H2 BOARD —



— H3 BOARD —



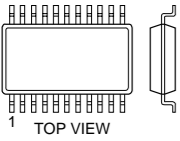


IC			D6021	A-5	—
			D6022	A-5	—
IC6002	B-3		D6023	A-5	—
IC6004	A-4		D6100	E-5	—
IC6007	C-3		D6101	D-4	—
IC6301	A-2		D6102	D-4	③
IC6302	D-3		D6103	D-4	③
IC6303	A-1		D6104	E-4	—
IC6304	D-2		D6105	D-4	—
			D6106	E-4	—
			D6108	D-4	—
TRANSISTOR			D6300	C-2	—
			D6301	C-2	—
			D6302	A-2	—
		*	D6303	D-2	—
Q6004	C-4	—	D6304	B-2	—
Q6100	D-4	—	D6305	D-2	③
Q6102	D-4	①	D6306	D-2	③
Q6300	D-2	①	D6307	D-1	③
Q6301	D-1	①	D6308	C-2	—
Q6302	D-1	①	D6309	C-2	—
Q6303	A-1	—	D6310	C-3	—
Q6304	D-2	—	D6311	D-2	③
			D6312	C-1	③
DIODE			D6315	C-1	③
			D6316	D-1	③
		*	D6317	D-1	③
D6010	C-3	③	D6318	A—1	—
D6015	C-5	—	D6319	D-1	③
D6017	E-4	—	D6320	D-1	③
D6019	A-4	—	D6323	D-3	—
D6020	B-5	—			

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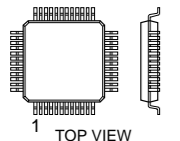
7-5. SEMICONDUCTORS

CA0007AM  
LM339NS  
MC74HC74AFEL  
NJM2058M-TE2  
NJM3403AM  
NJM3403AM(TE2)  
PC74HC00D-T  
PC74HC02D-T  
SN74HC32ANS  
SN74HC32ANSR  
SN74HC74ANS  
SN74HC74ANSR  
TC74AC32F  
TC74AC32F(EL)  
TLC2932IPW  
TLC2932IPW-E20  
TLC2933IPWR  
U2861B-MFP-G3  
μPC339G2-T2



14pin SOP

CM0006CF



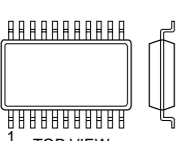
80pin QFP

CXA1815S



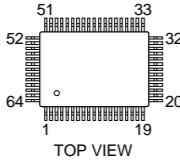
36pin DIP

CXA1875AM-T4  
MC14052BDR2  
MC74HC4052F  
MC74HC4052FEL  
MC74HC4538AF  
MC74HC4538AFEL  
PCM56P  
PCM56P-L  
SN74HC163ANSR  
TC74HC163AF  
TC74HC4053AFT(EL)



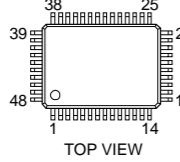
16pin SOP

CXA2100AQ-TL  
CXA2149Q-TL  
CXP86324-027Q



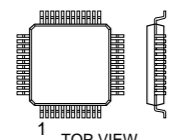
TOP VIEW

CXA2123BQ-T6



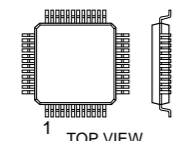
TOP VIEW

CXA3266Q-T6  
CXD2064Q-T6  
CXD2309Q



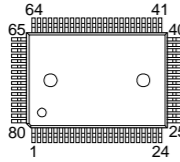
TOP VIEW

CXD2090Q



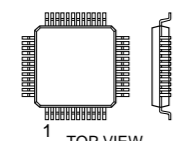
TOP VIEW

CXD2303AQ-TL  
MC14094BF  
MC14094BF-T2  
MSP3410D-C5QA-B4



TOP VIEW

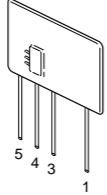
CXD9509Q



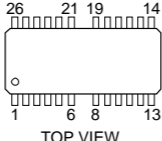
TOP VIEW

240pin QFP

DM-58

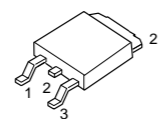


GM71C17400CT-6

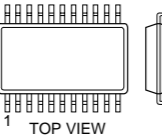


TOP VIEW

LF50CDT-TR

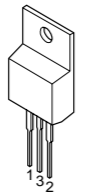


LM358D  
LM358DR  
LM393PS  
LM393PS-E20  
M24C32-MN6T  
MB3793-42PNF  
MB3793-42PNF-ER  
NJM4558M-T2  
TC7W00F(TE12R)  
TC7W66FU(TE12R)  
TDA2822D013TR  
μPC4558G2  
μPC4570G2  
μPC4570G2-E2

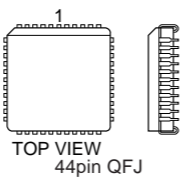


TOP VIEW

LM7912CT  
NJM79M05FA

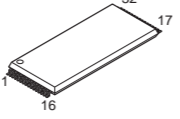


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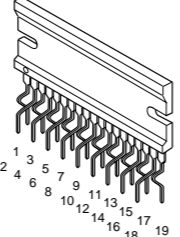


TOP VIEW

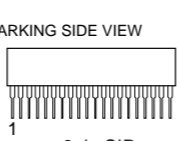
M29F040-120N1



MCR5152

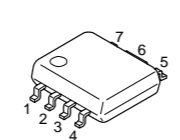


MM1115XFBE

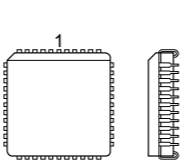


8pin SIP

MM1476AF(TP)

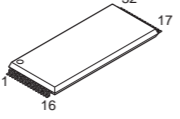


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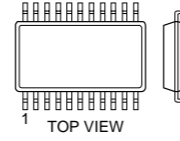


TOP VIEW

M29F040-120N1

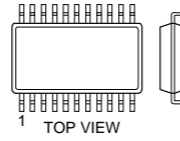


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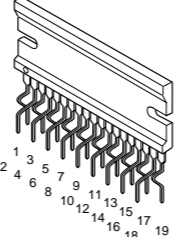
TOP VIEW

MB81F643242B-10FN

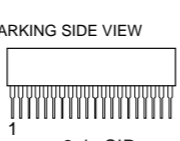


TOP VIEW

MCR5152

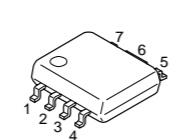


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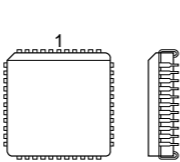


8pin SIP

MM1476AF(TP)

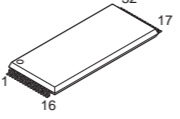


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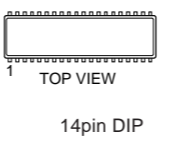


TOP VIEW

M29F040-120N1

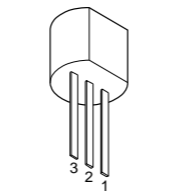


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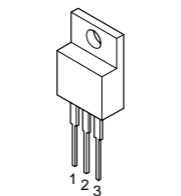


TOP VIEW

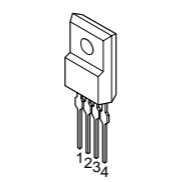
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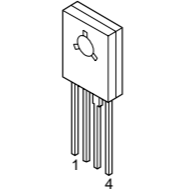
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NJM78M09FA  
NJM79M12FA



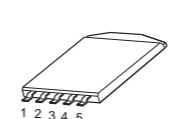
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PQ09RF11



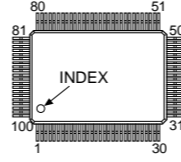
PQ30RV21



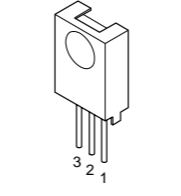
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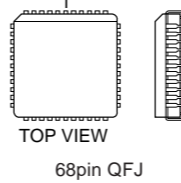
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SBX1981-51(21)

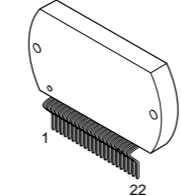


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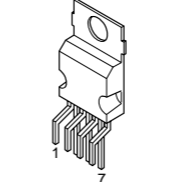


TOP VIEW

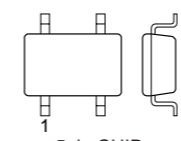
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STV9379

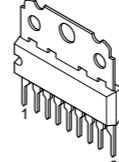


TC7S14F  
TC7S14F(TE85R)  
TC7SET04F(TE85R)  
TC7SET08FU(TE85R)  
TC7SET08FU(TE85R)  
TC7W08F  
TC7W08F(TE12R)

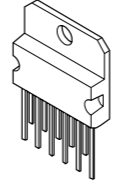


5pin CHIP

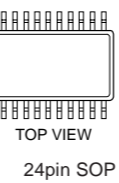
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TDA7265

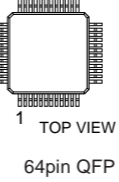


TDA9178T/N1.118



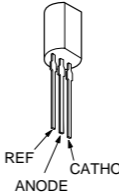
TOP VIEW

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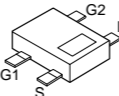


TOP VIEW

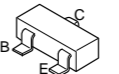
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TL431CLP-Z20  
μPC1093J-1-T



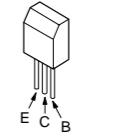
BSS83



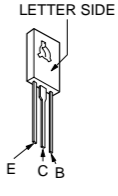
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DTC144EKA-T146  
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2SA1037AK-T146-R  
2SA1037K-T-146-R  
2SA1162-G  
2SB709A-QRS-TX  
2SC1623-L5L6  
2SC2412K-T-146-QR  
2SC2412K-T-146-R  
2SC2412K-T-146-S  
2SD2114K  
2SD2114KT146  
2SD601A-Q  
2SD601A-QRS-TX



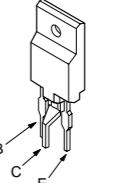
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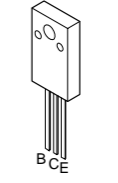
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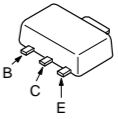
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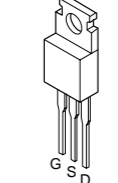
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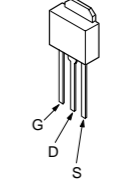
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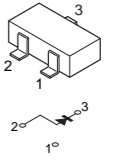
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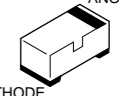
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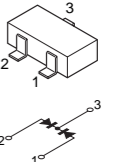
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MA3056M-TX  
MA3062M-TX  
MA3220M-TX  
RD5.6M-B2



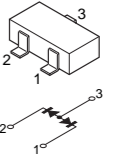
BAS216



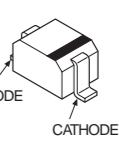
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DAN202K-T-146



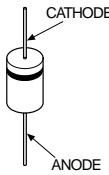
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DAP202K-T-146



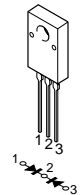
DTZ-TT11-15B  
DTZ4.7C  
DTZ5.1B  
DTZ9.1  
MA113-(TX)  
RD12SB2  
RD5.6S-B  
UDZ-TE-17-12B  
UDZ-TE-17-15B  
UDZ-TE-17-3.9B  
UDZ-TE-17-4.7B  
UDZ-TE-17-5.1B  
UDZ-TE-17-5.6B  
UDZ-TE-17-6.2B  
UDZ-TE-17-6.8B  
UDZ-TE-17-9.1B  
1SS355TE-17



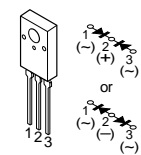
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D1NS6  
D1NS6-TA2  
EGP20G  
EL1Z  
EL1Z-V1  
ERA22-08  
ERA22-08TP3  
GP08D  
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RGP15GPKG23  
UF4005PKG23  
1SS83  
1SS83TD



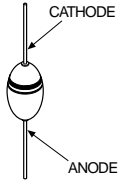
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D10SC4M-F  
D10SC6M-4012



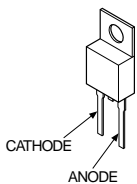
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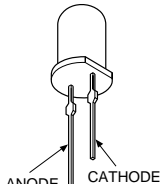
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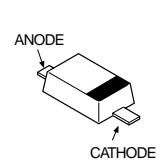
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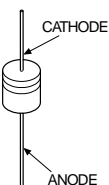
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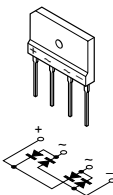
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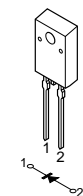
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D1N20R-TA2  
D1NS4  
MTZJ-13  
MTZJ-13B  
MTZJ-7.5B  
MTZJ-T-72-6.8B  
MTZJ-T-77-10B  
MTZJ-T-77-13  
MTZJ-T-77-13B  
MTZJ-T-77-15  
MTZJ-T-77-24  
MTZJ-T-77-36B  
MTZJ-T-77-5.1B  
MTZJ-T-77-7.5B  
RD10ESB2  
RD12ES-B2  
RD5.1ESB2  
RD6.8ES-B2  
1SS133T-77



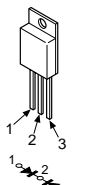
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D4SBL20U  
D4SBS4  
D4SBS4-F  
RBA-406B  
RBV-406B



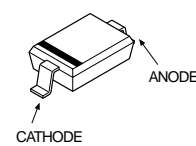
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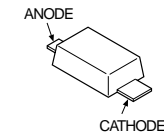
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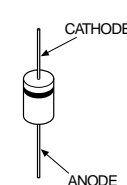
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MA73-TX



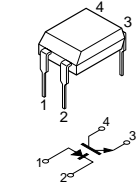
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ERC04-06SE  
MTZJ-T-72-18B  
MTZJ-T-77-12B

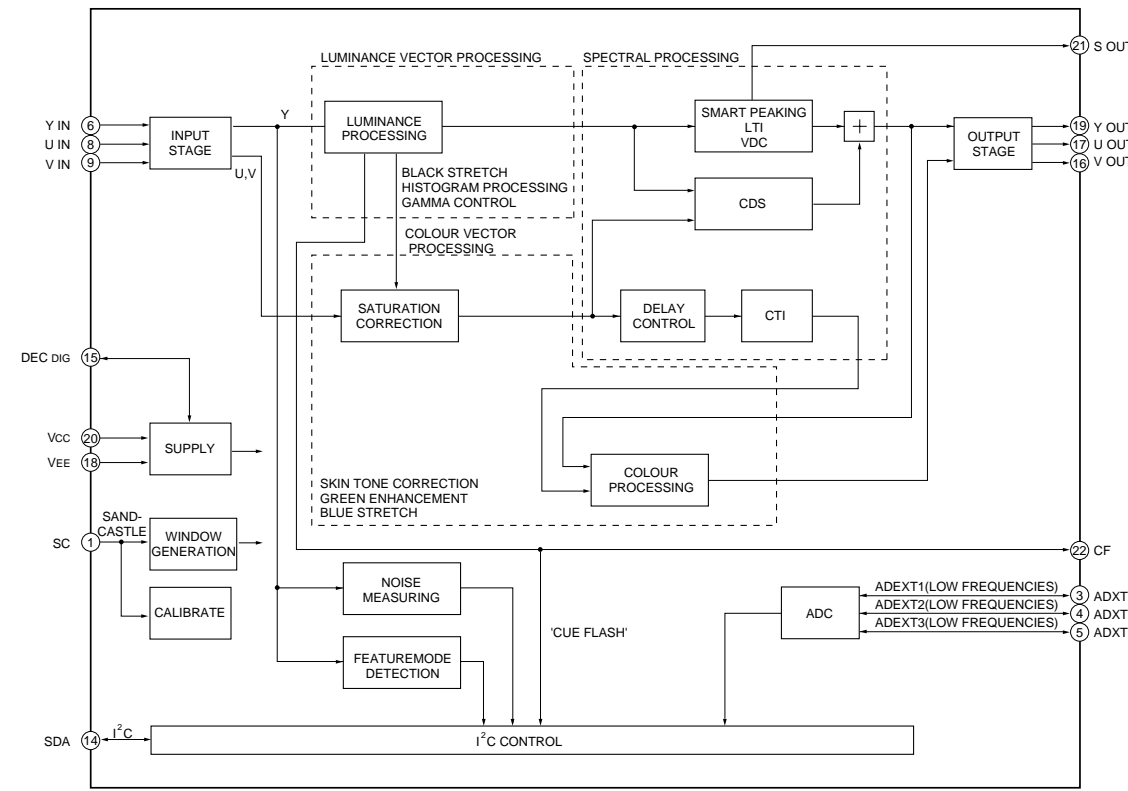


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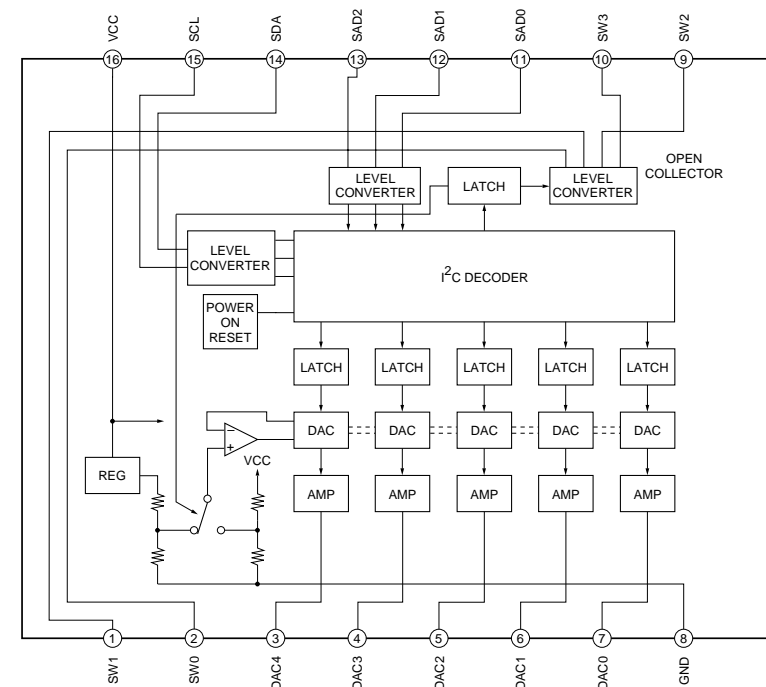


## 7-6. IC BLOCK DIAGRAMS

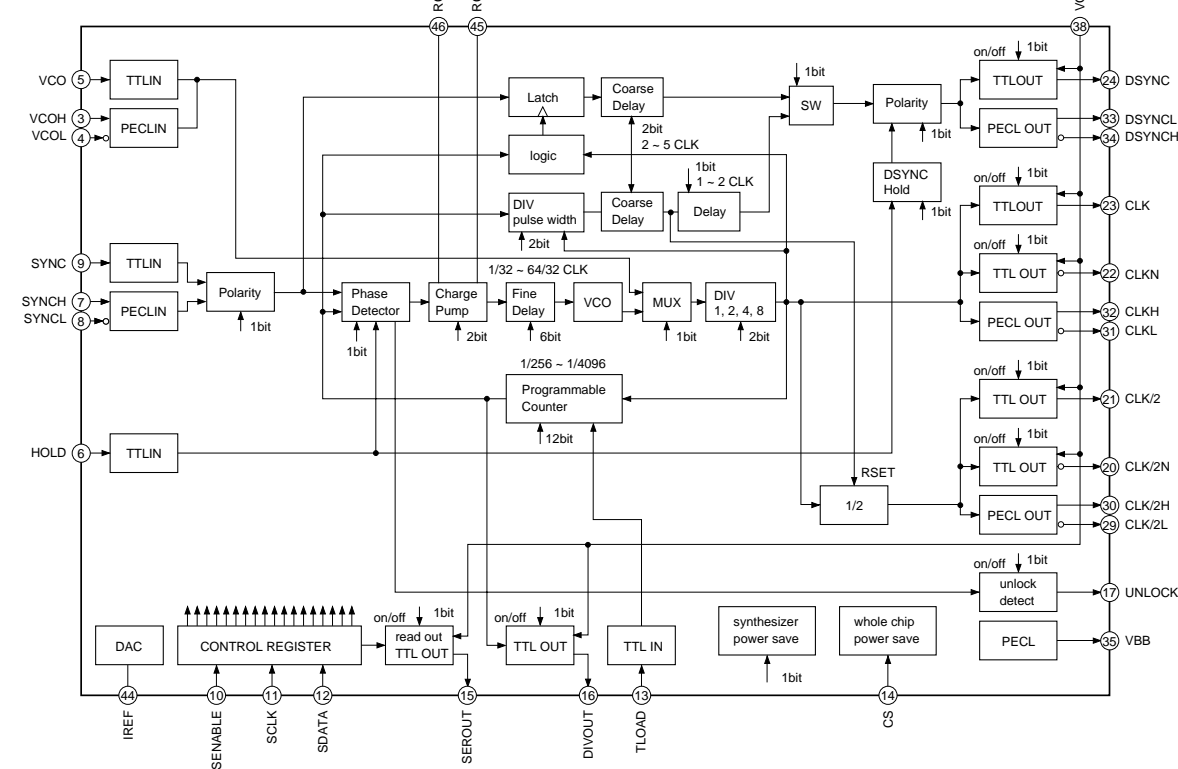
• J (2/2) BOARD IC8601  
TDA9178T



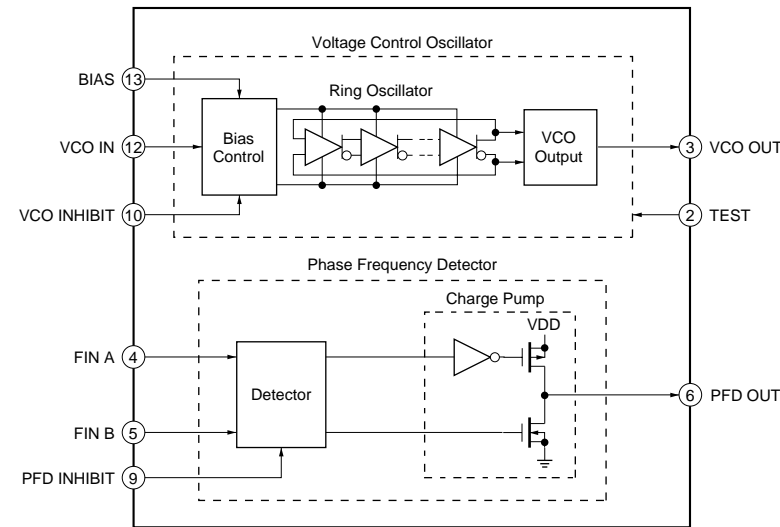
• A BOARD IC1401  
• B3 (2/4) BOARD IC604  
• S BOARD IC4705  
CXA1875AM



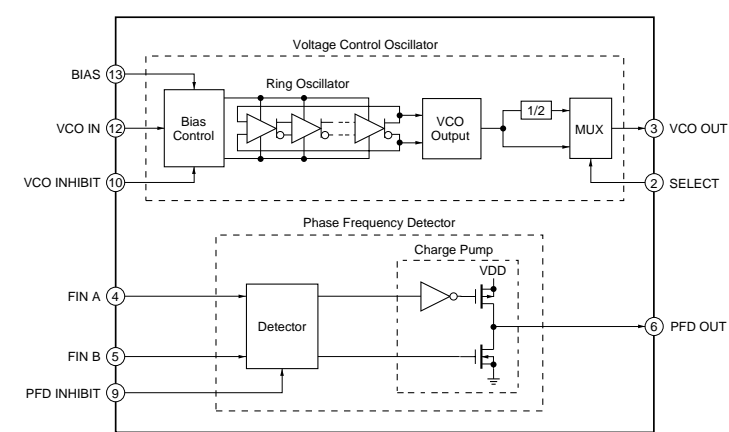
• B3 (4/4) BOARD IC303  
CXA3266Q



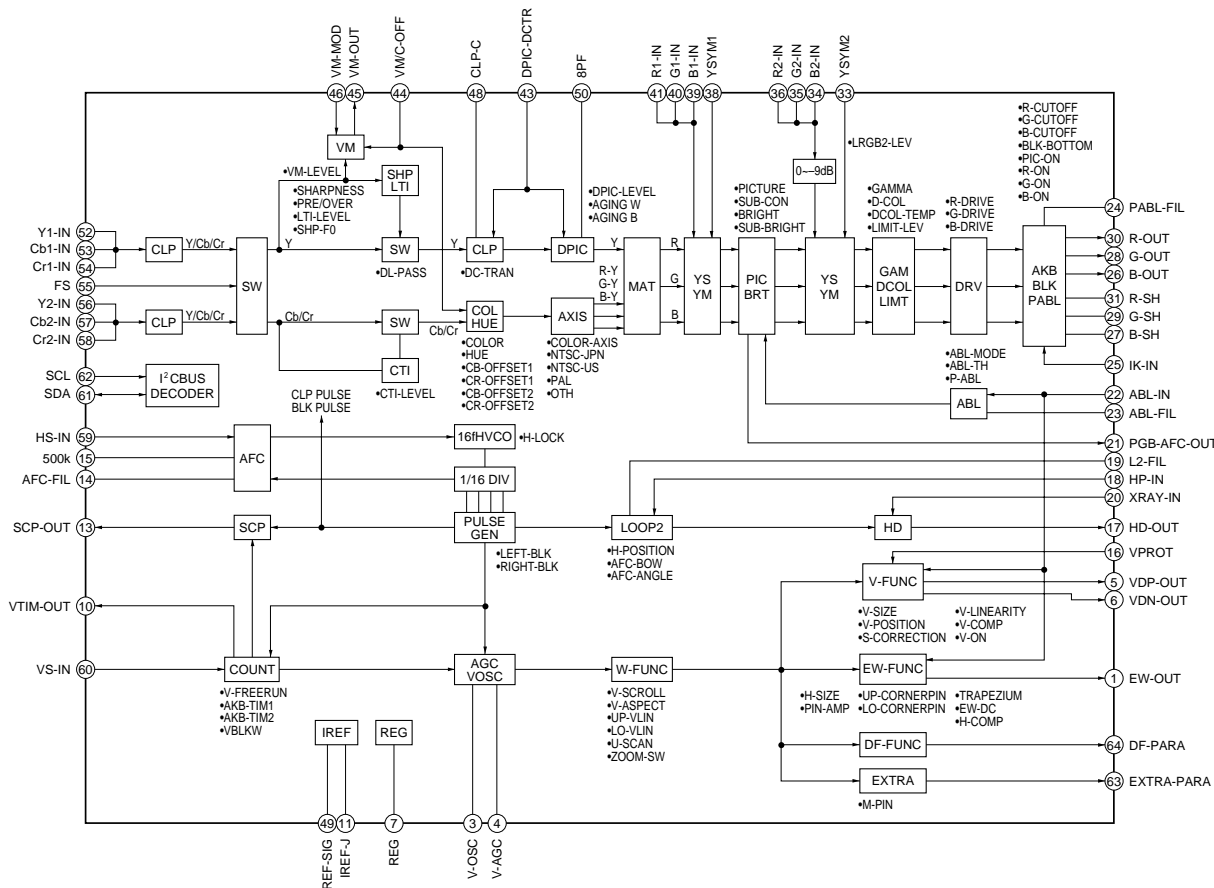
• B3 (1/4) BOARD IC504  
TLC2933IPWR



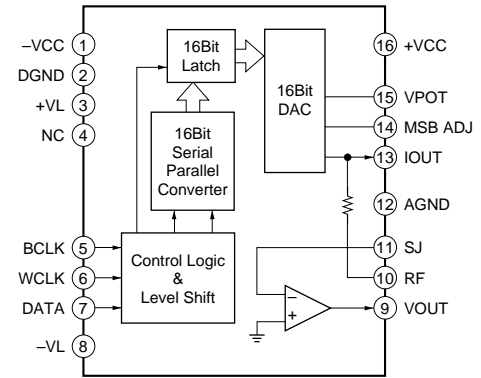
• B3 (2/4) BOARD IC603  
• BD BOARD IC2612  
TLC2932IPW



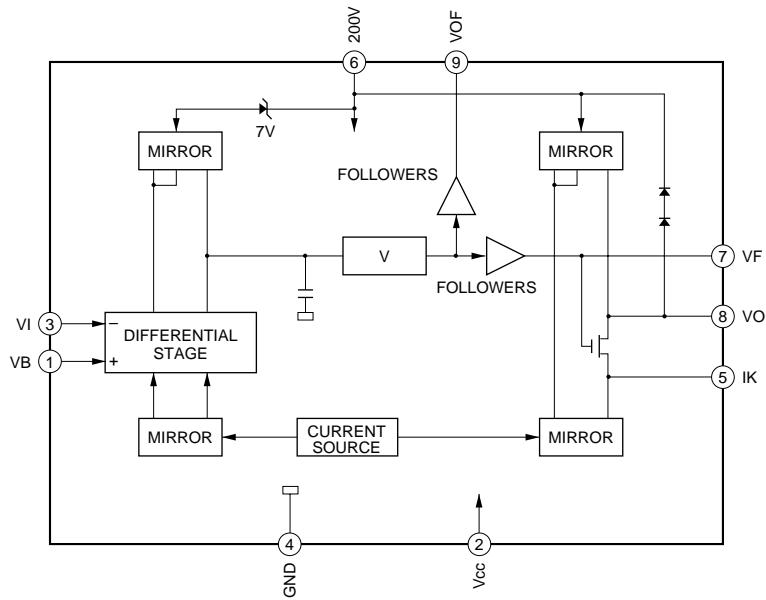
• **E BOARD IC4301**  
**CXA2100AQ**



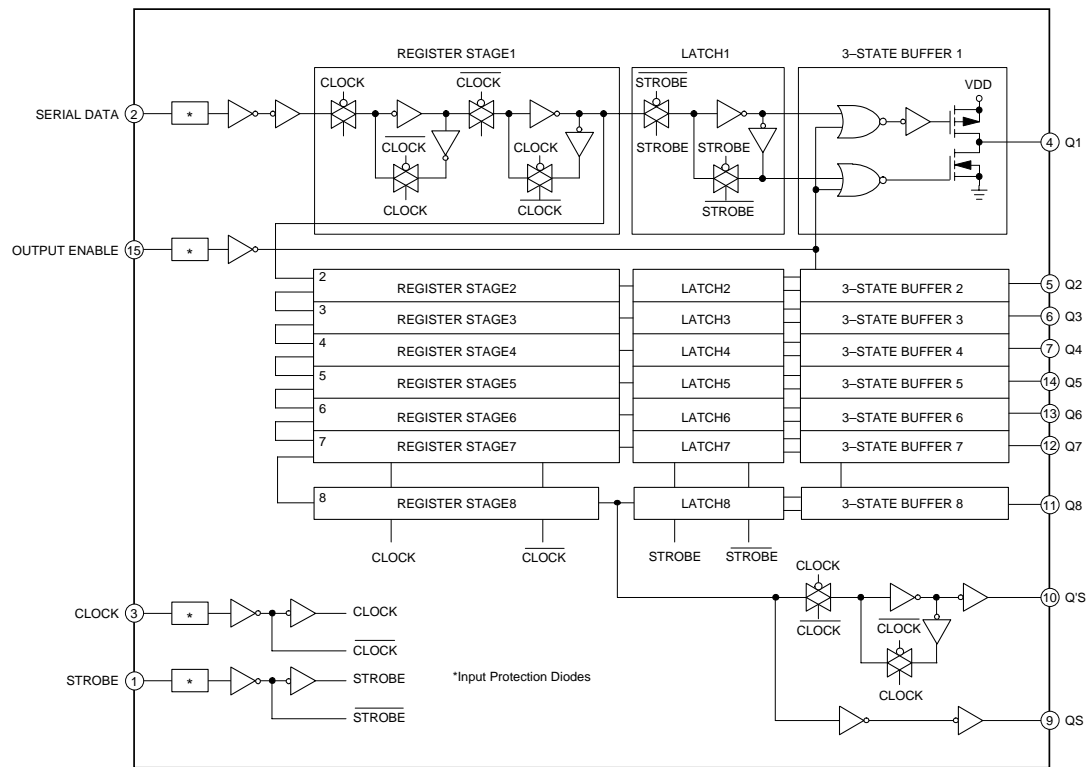
• **BD BOARD IC2602, 2604, 2609, 2614, 2623, 2625 PCM56P**



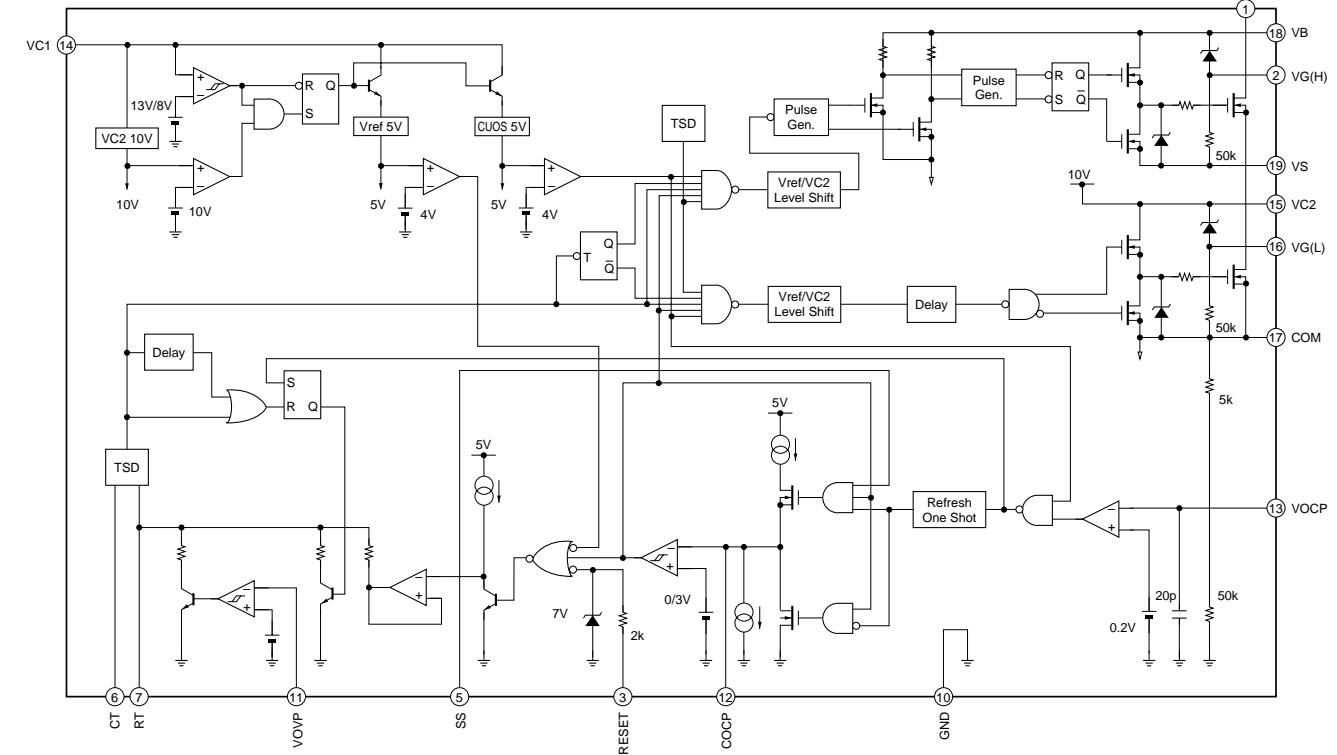
• **CR BOARD IC7101**  
• **CG BOARD IC7201**  
• **DB BOARD IC7301**  
**TDA6111Q**



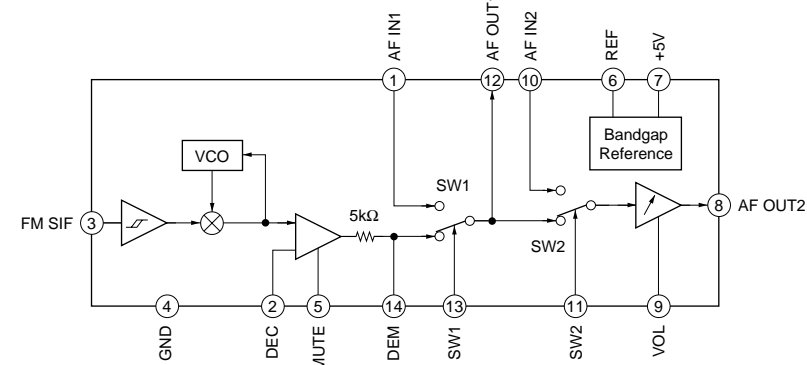
• **M BOARD IC9110**  
**MC14094BF**



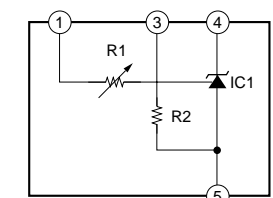
• **G BOARD IC6004**  
**MCR5152**



• **S BOARD IC4704**  
**U2861B**



• **G BOARD IC6301**  
**DM-58**



## SECTION 8

### EXPLODED VIEWS

**KP-48PS1/53PS1/61PS1**  
**48PS1K/53PS1K/61PS1K**

RM-892

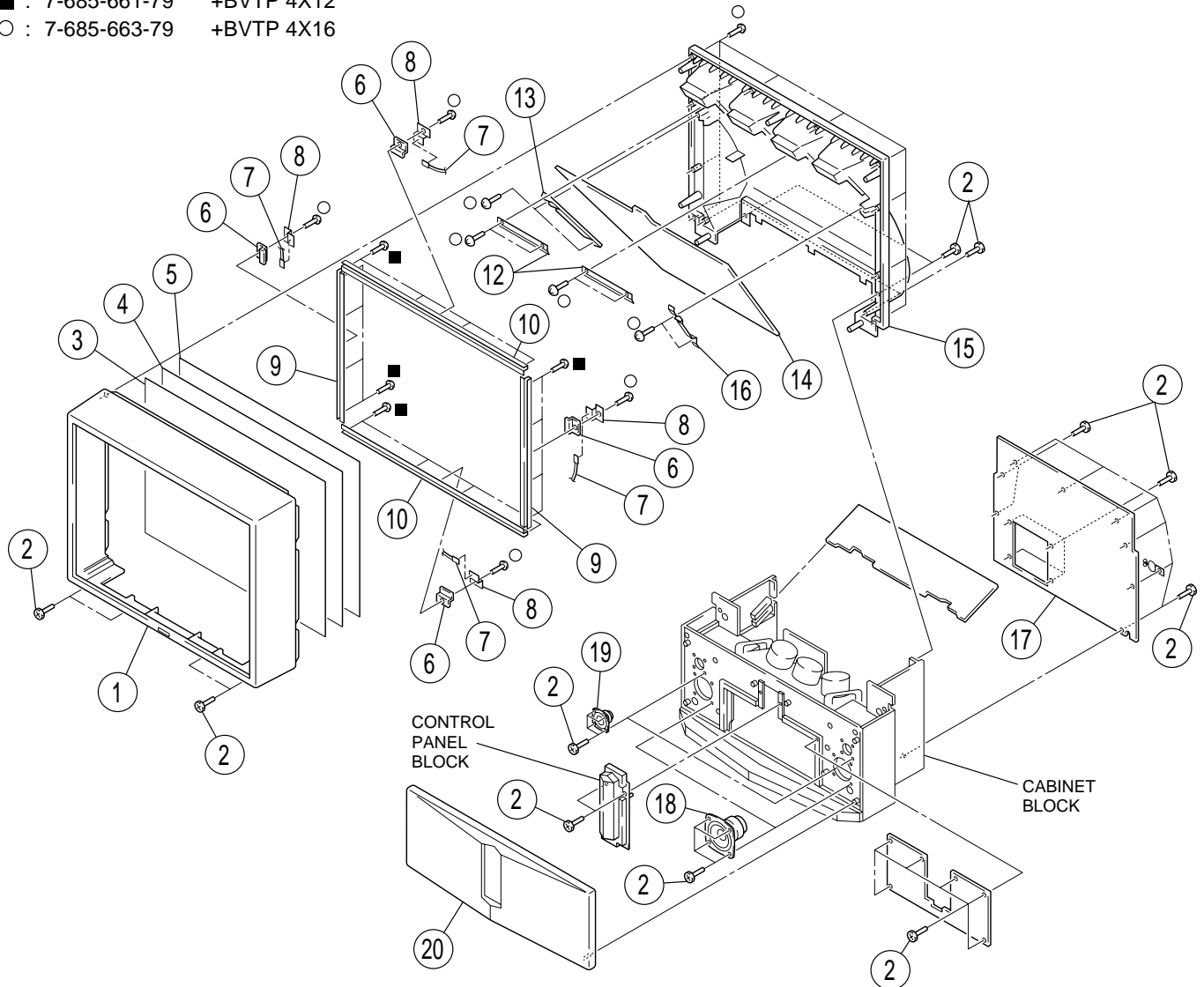
**NOTE:**

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

#### 8-1. SCREEN AND COVER BLOCK (KP-48)

■ : 7-685-661-79 +BVTP 4X12  
 ○ : 7-685-663-79 +BVTP 4X16

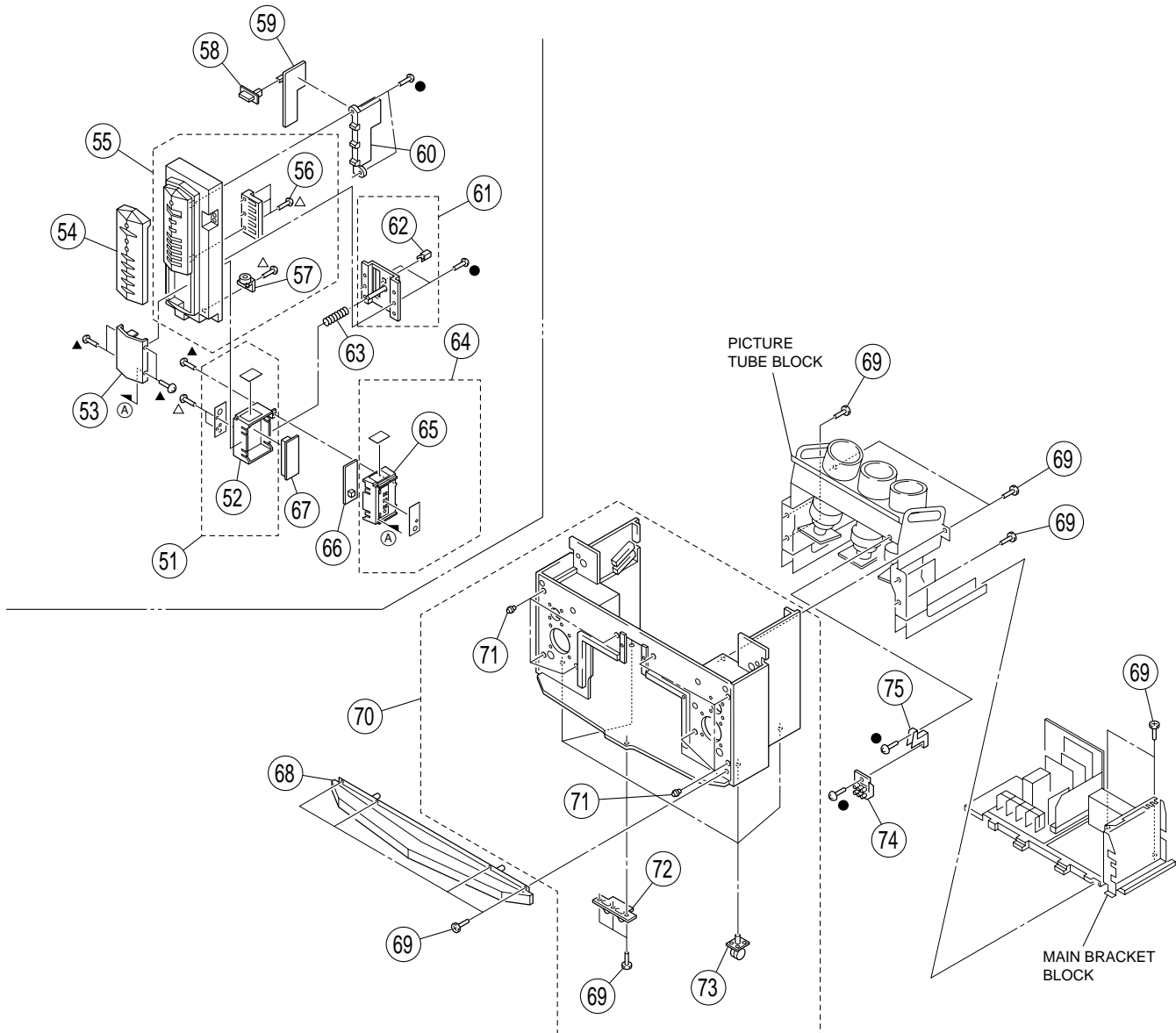


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	X-4037-628-1	BEZNET ASSY		12	4-064-042-01	HOLDER, MIRROR	
2	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD		13	* 4-051-790-02	HOLDER, MIRSD (L)	
3	4-064-041-11	SCREEN (48), CONTRAST		14	* 4-075-261-01	MIRROR (48)	
4	4-075-440-11	PLATE (48L), DIFFUSION		15	* 4-057-610-01	COVER, MIRROR	
5	4-075-504-11	PLATE (48F), DIFFUSION		16	* 4-051-789-02	HOLDER, MIRSD (R)	
6	* 4-205-155-01	COVER, SENSOR		17	* 4-075-258-01	BOARD (48), REAR	
7	1-528-864-11	BATTERY, SOLAR		18	1-529-405-11	SPEAKER (13 CM)	
8	* 4-066-132-01	HOLDER, SENSOR		19	1-529-404-11	SPEAKER (5 CM)	
9	* 4-064-051-01	HOLDER (V48), SCREEN		20	X-4037-629-1	GRILLE ASSY, SPEAKER	
10	* 4-062-052-01	HOLDER (H), SCREEN					

## 8-2. CONTROL PANEL AND CABINET BLOCK (KP-48)

- ▲ : 7-685-534-19 +BVTP 2.6X8  
△ : 7-685-648-79 +BVTP 3X12  
● : 7-685-663-71 +BVTP 4X16

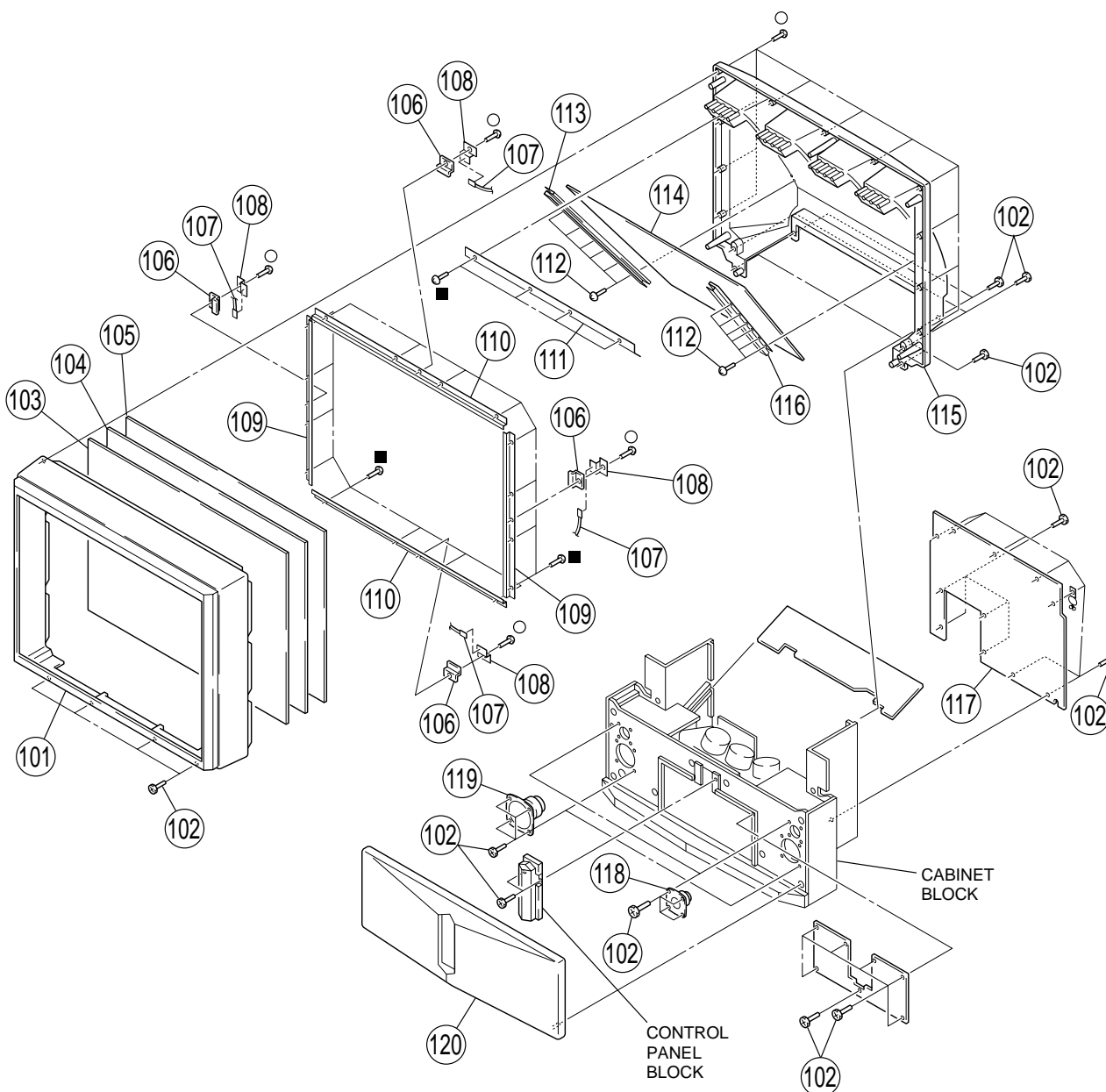
The components identified by shading and mark △ are critical for safety.  
Replace only with part number specified.



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4037-626-1	TRAY (L) ASSY		52	64	X-4037-625-1 TRAY (R) ASSY	65
52	4-072-001-02	TRAY (L)		65	4-072-000-11	TRAY (R)	
53	4-071-999-12	PANEL (T)		66	* A-1372-758-A	H2 BOARD, COMPLETE	
54	4-072-007-11	PANEL (C)		67	* A-1372-759-A	H3 BOARD, COMPLETE	
55	X-4037-024-2	PANEL ASSY, CONTROL	56, 57	68	* 4-075-256-01	SKIRT, FRONT	
56	4-071-997-01	BUTTON, MULTI		69	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD	
57	4-919-393-01	DAMPER		70	* X-4037-627-2	CABINET (48) ASSY	69, 71-73
58	4-071-995-01	BUTTON, POWER		71	4-063-421-02	LATCH (K)	
59	* A-1372-757-A	H1 BOARD, COMPLETE		72	4-075-874-01	FOOT, PLASTIC	
60	* 4-071-998-01	BRACKET (HA)		73	4-075-244-01	CASTER (DIA. 30)	
61	X-4037-221-2	HOLDER ASSY, TRAY		74	△ 1-223-925-11	RESISTOR ASSY (HIGH-VOLTAGE)	
62	4-047-464-01	CATCHER, PUSH	62			(FOCUS PACK)	
63	4-075-242-01	SPRING (T)		75	* 4-054-825-01	BRACKET, FOCUS PACK	

### 8-3. SCREEN AND COVER BLOCK (KP-53)

- : 7-685-661-79 +BVTP 4X12  
○ : 7-685-663-79 +BVTP 4X16

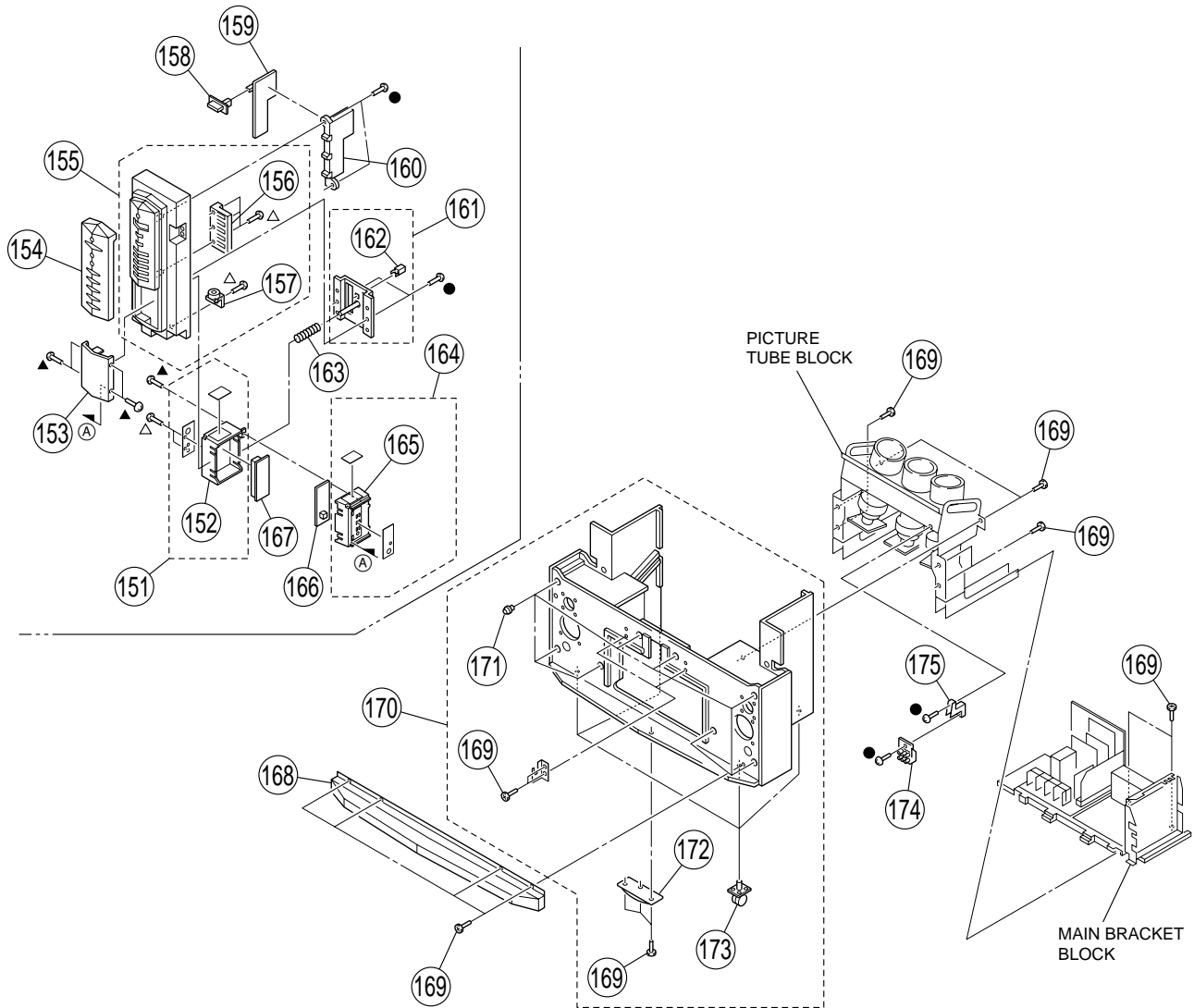


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
101	X-4037-605-1	BEZNET ASSY		111	* 4-075-234-01	HOLDER, MIRROR	
102	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD		112	4-378-522-31	SCREW (4X20), TAPPING	
103	4-064-186-11	SCREEN (53), CONTRAST		113	* 4-069-687-01	HOLDER (LS), MIRROR	
104	4-070-525-11	PLATE (L), DIFFUSION		114	4-075-271-01	MIRROR (53), REFLECTION	
105	4-064-872-11	PLATE (F), DIFFUSION		115	* 4-069-694-01	COVER, MIRROR	
106	* 4-205-155-01	COVER, SENSOR		116	* 4-069-688-01	HOLDER (RS), MIRROR	
107	1-528-864-11	BATTERY, SOLAR		117	* 4-075-267-01	BOARD (53), REAR	
108	* 4-066-132-01	HOLDER, SENSOR		118	1-529-404-11	SPEAKER (5 CM)	
109	* 4-075-269-01	HOLDER (53) L, SCREEN		119	1-529-405-11	SPEAKER (13 CM)	
110	* 4-075-270-01	HOLDER (53) S, SCREEN		120	X-4037-604-1	GRILLE ASSY, SPEAKER	

## 8-4. CONTROL PANEL AND CABINET BLOCK (KP-53)

- ▲ : 7-685-534-19 +BTP 2.6X8  
△ : 7-685-648-79 +BTP 3X12  
● : 7-685-663-71 +BVTP 4X16

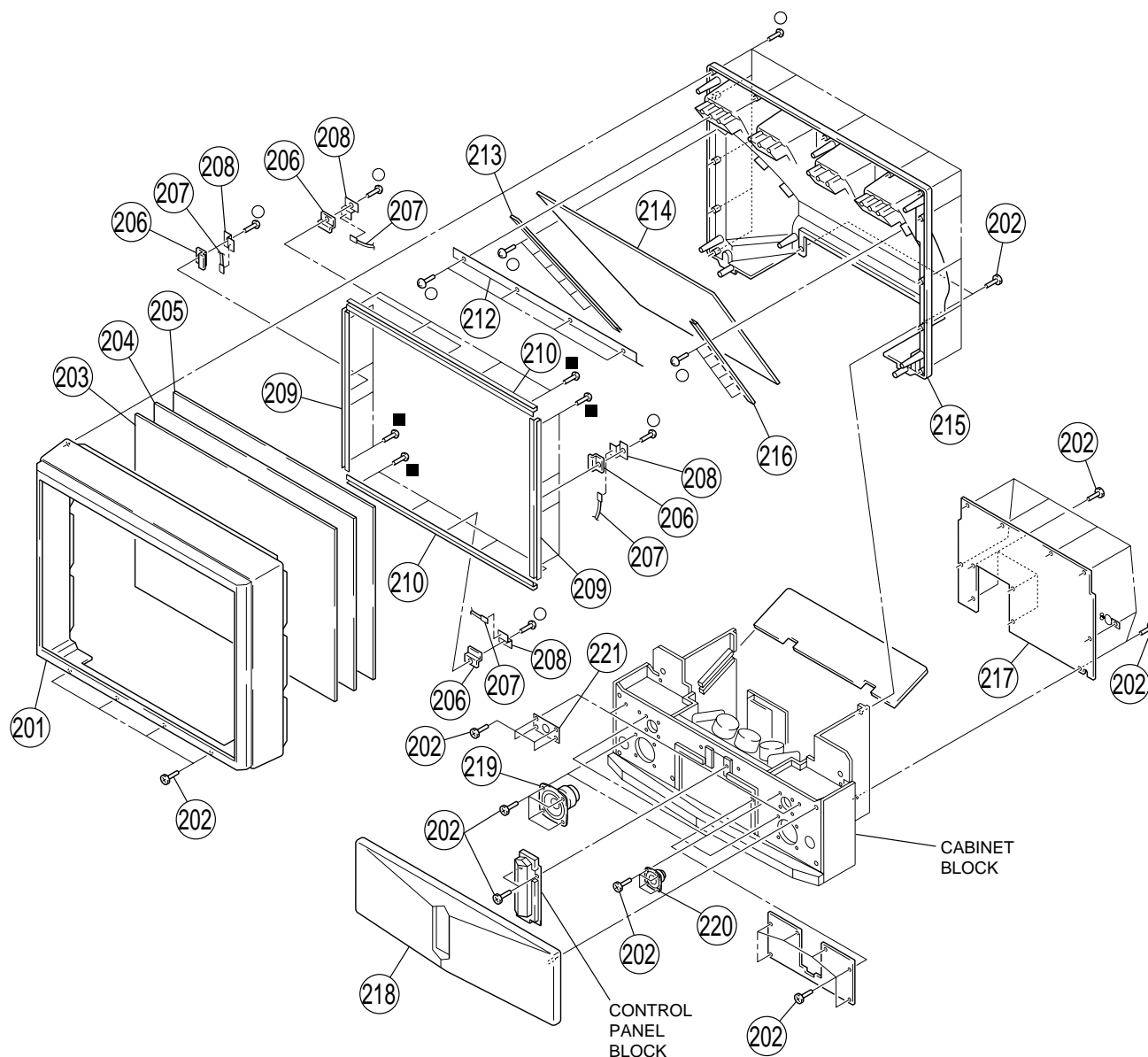
The components identified by shading and mark △ are critical for safety.  
Replace only with part number specified.



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
151	X-4037-626-1	TRAY (L) ASSY		164	X-4037-625-1	TRAY (R) ASSY	165
152	4-072-001-02	TRAY (L)		165	4-072-000-11	TRAY (R)	
153	4-071-999-12	PANEL (T)		166	* A-1372-758-A	H2 BOARD, COMPLETE	
154	4-072-007-11	PANEL (C)		167	* A-1372-759-A	H3 BOARD, COMPLETE	
155	X-4037-024-2	PANEL ASSY, CONTROL	156, 157	168	* 4-074-349-01	SKIRT (53), FRONT	
156	4-071-997-01	BUTTON, MULTI		169	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD	
157	4-919-393-01	DAMPER		170	* X-4037-603-2	CABINET (53) ASSY	169, 171-173
158	4-071-995-01	BUTTON, POWER		171	4-063-421-02	LATCH (K)	
159	* A-1372-757-A	H1 BOARD, COMPLETE		172	4-075-874-01	FOOT, PLASTIC	
160	* 4-071-998-01	BRACKET (HA)		173	4-075-244-01	CASTER (DIA. 30)	
161	X-4037-221-2	HOLDER ASSY, TRAY	162	174	△ 1-223-925-11	RESISTOR ASSY (HIGH-VOLTAGE) (FOCUS PACK)	
162	4-047-464-01	CATCHER, PUSH		175	* 4-054-825-01	BRACKET, FOCUS PACK	
163	4-075-242-01	SPRING (T)					

## 8-5. SCREEN AND COVER BLOCK (KP-61)

- : 7-685-661-79 +BVTP 4X12  
○ : 7-685-663-79 +BVTP 4X16



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
201	X-4037-601-1	BEZNET (61) ASSY		212	4-075-234-11	HOLDER, MIRROR	
202	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD		213	* 4-069-689-01	HOLDER (L), MIRROR	
203	4-065-813-11	SCREEN (61AR), CONTRAST		214	4-070-922-01	MIRROR, REFLECTION	
204	4-070-283-11	PLATE (L), DIFFUSION		215	* X-4037-602-1	COVER (61) ASSY, MIRROR	
205	4-066-082-11	PLATE (F), DIFFUSION		216	* 4-069-690-01	HOLDER (R), MIRROR	
206	* 4-205-155-01	COVER, SENSOR		217	* 4-075-248-01	BOARD (61), REAR	
207	1-528-864-11	BATTERY, SOLAR		218	X-4037-600-1	GRILLE ASSY, SPEAKER	
208	* 4-066-132-01	HOLDER, SENSOR		219	1-529-759-11	SPEAKER (16 CM)	
209	4-072-006-01	HOLDER (V61), SCREEN		220	1-529-758-11	SPEAKER (8 CM)	
210	4-072-005-01	HOLDER (H61), SCREEN		221	1-529-757-11	SPEAKER (2.7 CM)	

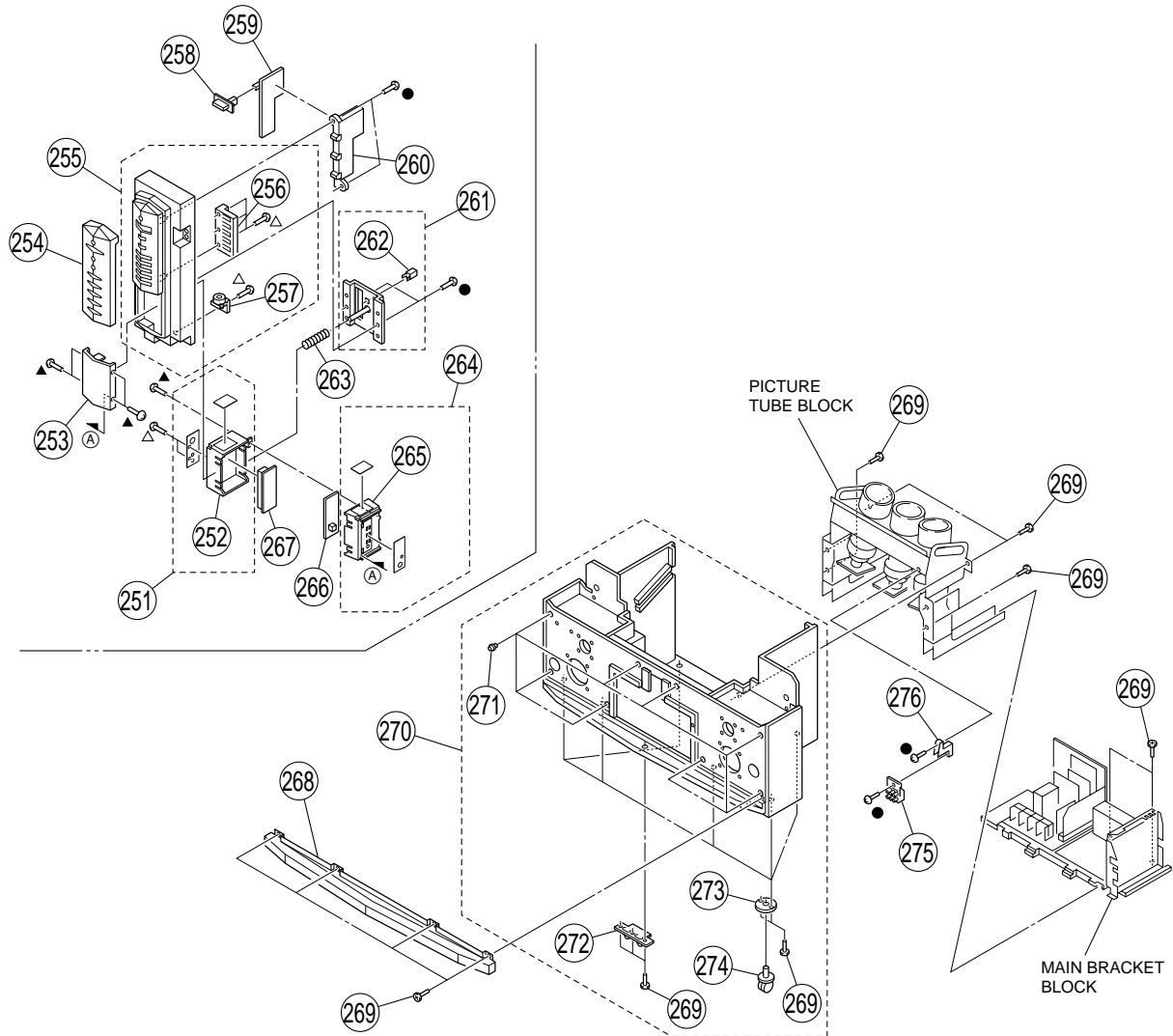
**KP-48PS1/53PS1/61PS1**  
**48PS1K/53PS1K/61PS1K**

RM-892

**8-6. CONTROL PANEL AND CABINET BLOCK (KP-61)**

- ▲ : 7-685-534-19 +BTP 2.6X8  
 △ : 7-685-648-79 +BVTP 3X12  
 ● : 7-685-663-71 +BVTP 4X16

The components identified by shading and mark △ are critical for safety.  
 Replace only with part number specified.

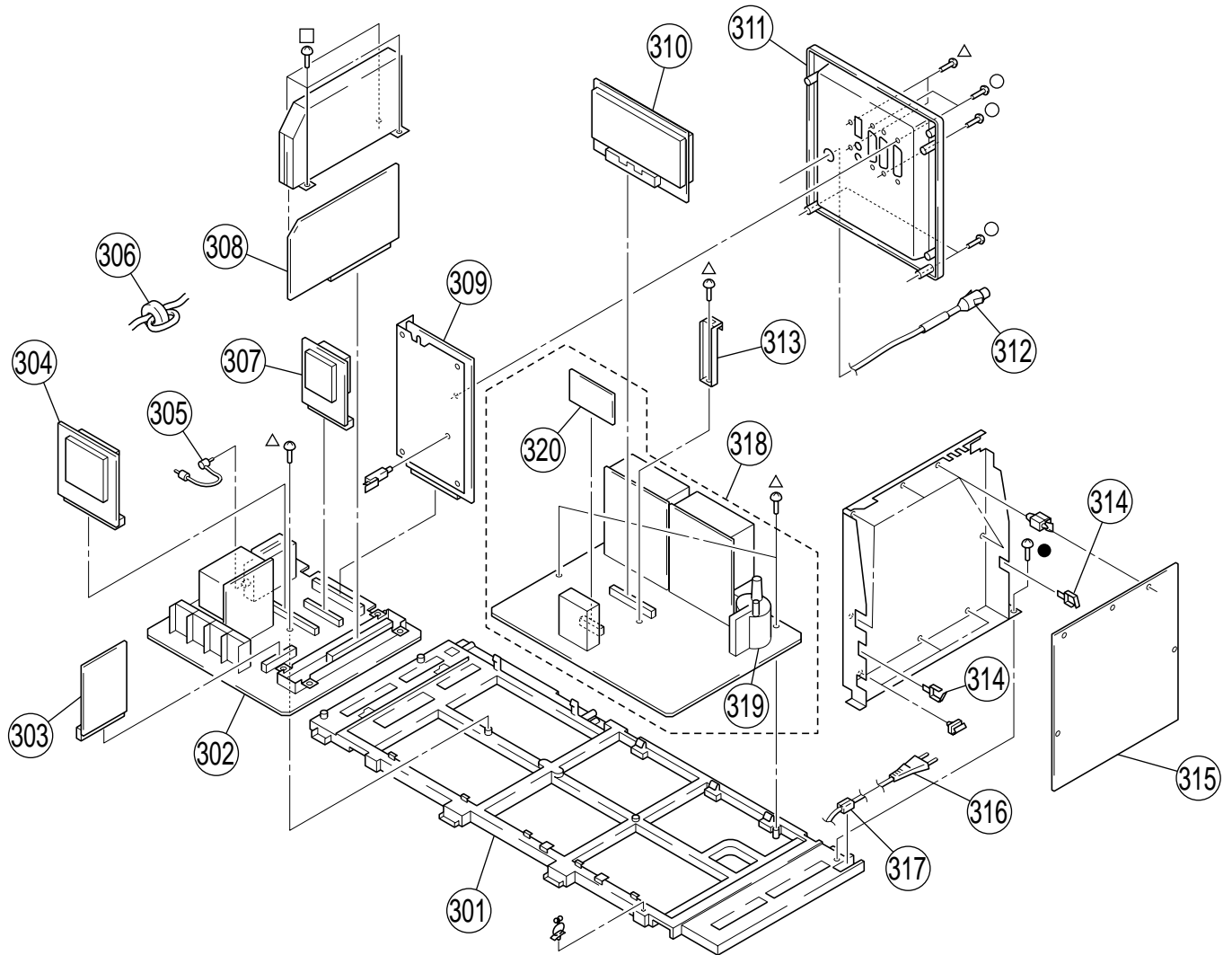


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
251	X-4037-626-1	TRAY (L) ASSY		265	4-072-000-11	TRAY (R)	
252	4-072-001-02	TRAY (L)	252	266	* A-1372-758-A H2 BOARD, COMPLETE		
253	4-071-999-12	PANEL (T)		267	* A-1372-759-A H3 BOARD, COMPLETE		
254	4-072-007-11	PANEL (C)		268	4-072-013-11	SKIRT (61), FRONT	
255	X-4037-024-2	PANEL ASSY, CONTROL	256, 257	269	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD	
256	4-071-997-01	BUTTON, MULTI		270	* X-4037-599-2	CABINET (61) ASSY	269, 271-273
257	4-919-393-01	DAMPER		271	4-063-421-02	LATCH (K)	
258	4-071-995-01	BUTTON, POWER		272	4-075-874-01	FOOT, PLASTIC	
259	* A-1372-757-A	H1 BOARD, COMPLETE		273	4-030-850-01	SOCKET, CASTER	
260	* 4-071-998-01	BRACKET (HA)		274	4-039-546-01	CASTER	
261	X-4037-221-2	HOLDER ASSY, TRAY	262	275	△ 1-223-925-11	RESISTOR ASSY (HIGH-VOLTAGE) (FOCUS PACK)	
262	4-047-464-01	CATCHER, PUSH		276	* 4-054-825-01	BRACKET, FOCUS PACK	
263	4-075-242-01	SPRING (T)					
264	X-4037-625-1	TRAY (R) ASSY	265				

## 8-7. MAIN BRACKET BLOCK

- △ : 7-685-648-79 +BVTP 3X12  
● : 7-685-663-71 +BVTP 4X16  
○ : 7-685-663-79 +BVTP 4X16  
□ : 7-685-872-09 +BVTT 3X8

The components identified by shading and mark △ are critical for safety.  
Replace only with part number specified.

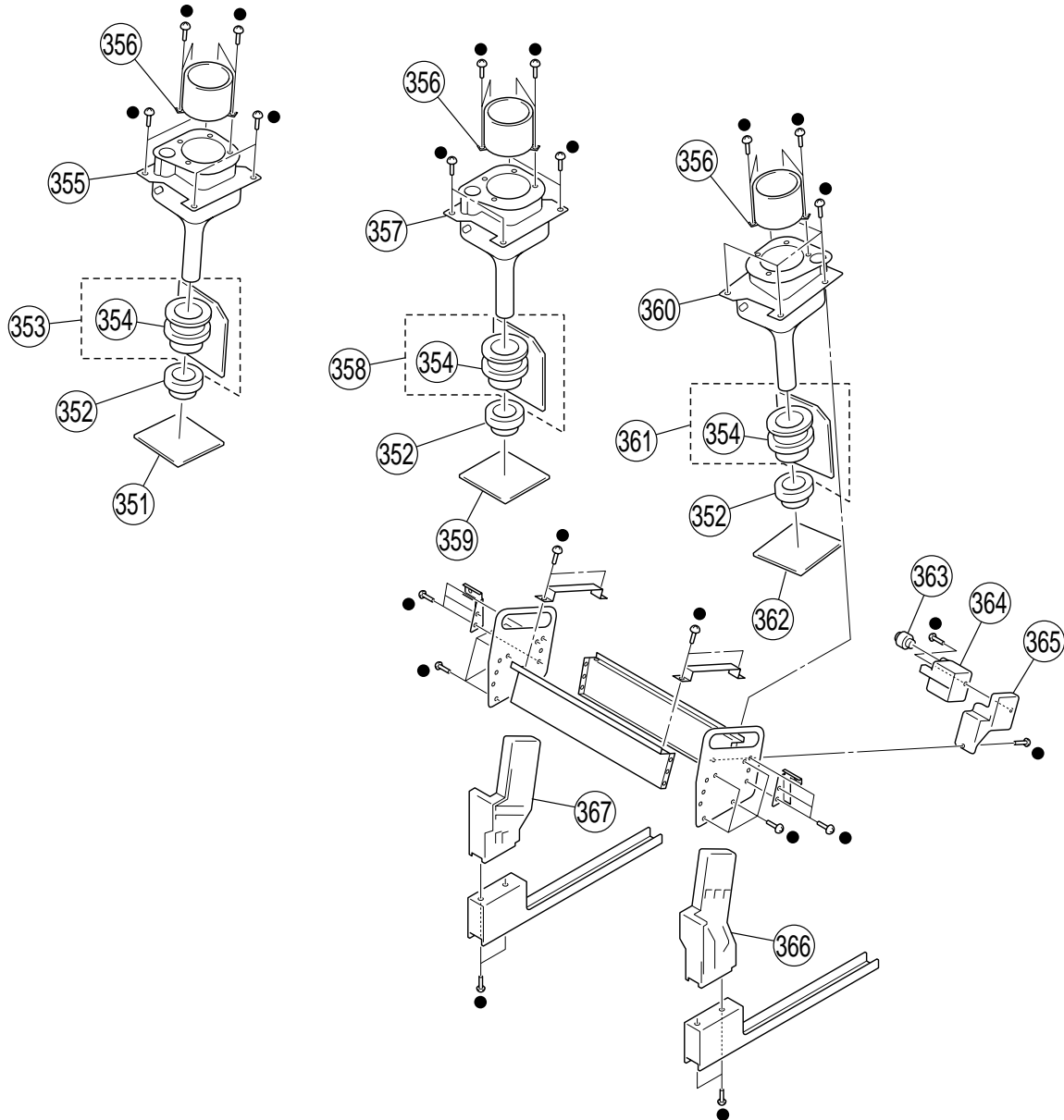


REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
301	* 4-062-537-01	BRACKET, MAIN		314	* 4-316-015-00	HOLDER, WIRE	
302	* A-1299-119-A	A BOARD, COMPLETE		315	* A-1316-512-A	G BOARD, COMPLETE	
303	* A-1346-906-A	E BOARD, COMPLETE		316	△ 1-765-286-11	CORD, POWER	
304	* A-1306-585-A	M BOARD, COMPLETE		317	4-389-201-11	HOLDER, AC CORD	
305	* 1-555-110-00	CABLE, PIN		318	* A-1346-907-A	D BOARD, COMPLETE	319, 320 (48PS1/48PS1K)
306	1-543-982-11	CORE, FERRITE		318	* A-1346-908-A	D BOARD, COMPLETE	319, 320 (53PS1/53PS1K)
307	* A-1394-969-A	S BOARD, COMPLETE		318	* A-1346-909-A	D BOARD, COMPLETE	319, 320 (61PS1/61PS1K)
308	* A-1136-076-A	B3 BOARD, COMPLETE		319	△ 1-453-335-11	TRANSFORMER ASSY, FLYBACK NX-4010//M3P4	
309	* A-1394-970-A	J BOARD, COMPLETE		320	* A-1343-788-A	DS BOARD, COMPLETE	
310	* A-1136-077-A	BD BOARD, COMPLETE					
311	4-075-243-01	TERMINAL BOARD					
312	1-790-082-11	CABLE, RF					
313	* 3-657-516-11	SUPPORT, PRINTED CIRCUIT BOARD					

## 8-8. PICTURE TUBE BLOCK

● : 7-685-663-71 +BVTP 4X16

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
351	* A-1332-020-A	CR BOARD, COMPLETE		359	* A-1332-021-A	CG BOARD, COMPLETE	
352	$\Delta$ 1-452-790-21	NECK ASSY (NA-295)		360	$\Delta$ 8-733-575-15	PICTURE TUBE 07MXC3 (R) (HEATER)	
353	* A-1390-999-A	ZR BOARD, COMPLETE	354			(EXCEPT 61PS1/61PS1K)	
354	$\Delta$ 1-451-465-21	DEFLECTION YOKE		360	$\Delta$ 8-733-576-15	PICTURE TUBE 07MXC4 (R) (HEATER)	
355	$\Delta$ 8-733-572-15	PICTURE TUBE 07MXC3 (R) (HEATER)				(61PS1/61PS1K)	
		(EXCEPT 61PS1/61PS1K)		361	* A-1391-001-A	ZB BOARD, COMPLETE	354
355	$\Delta$ 8-733-573-15	PICTURE TUBE 07MXC4 (R) (HEATER)		362	* A-1332-022-A	CB BOARD, COMPLETE	
		(61PS1/61PS1K)		363	4-373-137-01	CAP (Z), RUBBER	
356	4-040-131-21	LENS (LINNIT POINT 6) (61PS1/61PS1K)		364	$\Delta$ 8-598-955-12	BLOCK ASSY, HIGH-VOLTAGE	
356	4-056-258-11	LENS (DELTA 78)		365	* 4-063-176-01	HOLDER, HVR	
		(EXCEPT 61PS1/61PS1K)		366	* 4-066-135-01	STAY (R), SIDE	
357	$\Delta$ A-1501-273-A	SEAL (G) ASSY, MECHANICAL		367	* 4-066-134-01	STAY (L), SIDE	
358	* A-1391-000-A	ZG BOARD, COMPLETE	354				

# SECTION 9

## ELECTRICAL PARTS LIST

KP-48PS1/53PS1/61PS1  
48PS1K/53PS1K/61PS1K

**H1** **H2** RM-892

### NOTE:

The components identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

The components identified by  $\square$  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

### RESISTORS

- All resistors are in ohms
- F : nonflammable

• Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- CAPACITORS  
PF :  $\mu$ F

• There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	* A-1372-757-A	H1 BOARD, COMPLETE *****		S3102	1-571-532-21	SWITCH, TACTIL (PROG -)	
				S3103	1-571-532-21	SWITCH, TACTIL (VOL +)	
				S3104	1-571-532-21	SWITCH, TACTIL (VOL -)	
	* 4-072-004-01	HOLDER, LED (D3001)		S3105	1-571-532-21	SWITCH, TACTIL (TV/VIDEO)	
		<CAPACITOR>		S3106	$\triangle$ 1-571-433-31	SWITCH, PUSH (AC POWER) (POWER) *****	
C3101	1-126-157-11	ELECT	10 $\mu$ F 20% 16V		* A-1372-758-A	H2 BOARD, COMPLETE *****	
		<CONNECTOR>				<CAPACITOR>	
CN3101	* 1-564-519-11	PLUG, CONNECTOR 4P		C3202	1-163-037-11	CERAMIC CHIP 0.022 $\mu$ F 10% 50V	
CN3102	* 1-564-525-11	PLUG, CONNECTOR 10P		C3203	1-163-037-11	CERAMIC CHIP 0.022 $\mu$ F 10% 50V	
CN3103	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P				<CONNECTOR>	
CN3104	* 1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P		CN3201	* 1-564-519-11	PLUG, CONNECTOR 4P	
		<DIODE>		CN3202	* 1-564-520-11	PLUG, CONNECTOR 5P	
D3001	8-719-992-06	DIODE SLA-580LT3F (STANDBY)				<JACK>	
		<IC>		J3201	1-691-293-11	JACK (HEAD PHONE)	
IC3101	8-742-014-21	HYB IC SBX1981-51 (21)				<COIL>	
		<TRANSISTOR>		L3201	1-414-189-31	INDUCTOR 100 $\mu$ H	
Q3101	8-729-120-28	TRANSISTOR 2SC1623-L5L6		L3202	1-414-189-31	INDUCTOR 100 $\mu$ H	
		<RESISTOR>				<RESISTOR>	
R3101	1-208-790-11	METAL CHIP 2.2K 0.50% 1/10W		R3207	1-216-033-00	RES-CHIP 220 5% 1/10W	
R3102	1-208-798-11	METAL CHIP 4.7K 0.50% 1/10W		R3208	1-216-033-00	RES-CHIP 220 5% 1/10W	
R3103	1-208-806-11	METAL CHIP 10K 0.50% 1/10W		R3209	1-216-033-00	RES-CHIP 220 5% 1/10W	
R3105	1-216-041-00	RES-CHIP 470 5% 1/10W		R3210	1-216-033-00	RES-CHIP 220 5% 1/10W	
R3106	1-216-037-00	RES-CHIP 330 5% 1/10W		R3211	1-216-295-91	SHORT 0	
R3111	1-216-295-91	SHORT 0				<SWITCH>	
R3112	1-216-295-91	SHORT 0		S3205	1-572-198-11	SWITCH, KEYBOARD (AUTO CONVER) *****	
R3116	1-208-798-11	METAL CHIP 4.7K 0.50% 1/10W					
R3117	1-208-790-11	METAL CHIP 2.2K 0.50% 1/10W					
		<SWITCH>					
S3101	1-571-532-21	SWITCH, TACTIL (PROG +)					

KP-48PS1/53PS1/61PS1  
48PS1K/53PS1K/61PS1K



RM-892

The components identified by shading  
and mark  $\triangle$  are critical for safety.  
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
* A-1372-759-AH3 BOARD, COMPLETE *****				<DEFLECTION YOKE>			
				DY7401△1-451-465-21 DEFLECTION YOKE (R)			
<CONNECTOR>							
CN3301	* 1-564-526-31 PLUG, CONNECTOR 11P			<COIL>			
<JACK>				L7401	1-412-911-11 FERRITE	0μH	
J3301	1-568-807-21 TERMINAL BLOCK, (S) 4P (AV 4)			L7402	1-414-187-11 INDUCTOR	47μH	
<RESISTOR>				<TRANSISTOR>			
R3301	1-216-025-00 RES-CHIP	100	5% 1/10W	Q7401	8-729-120-28 TRANSISTOR 2SC1623-L5L6		
R3302	1-216-025-00 RES-CHIP	100	5% 1/10W	Q7402	8-729-026-49 TRANSISTOR 2SA1037AK-T146-R		
*****				Q7403	8-729-120-28 TRANSISTOR 2SC1623-L5L6		
* A-1390-999-A ZR BOARD, COMPLETE *****				Q7404	8-729-026-49 TRANSISTOR 2SA1037AK-T146-R		
4-382-854-11 SCREW (M3X10), P, SW (+) (Q7408, Q7409)				Q7405	8-729-120-28 TRANSISTOR 2SC1623-L5L6		
<CAPACITOR>				Q7406	8-729-119-76 TRANSISTOR 2SA1175-HFE		
C7401	1-163-038-91 CERAMIC CHIP	0.1μF	25V	Q7407	8-729-423-33 TRANSISTOR 2SC3311A-QRSTA		
C7402	1-163-021-91 CERAMIC CHIP	0.01μF	10% 50V	Q7408	8-729-045-04 TRANSISTOR 2SC5511		
C7403	1-163-021-91 CERAMIC CHIP	0.01μF	10% 50V	Q7409	8-729-045-05 TRANSISTOR 2SA2005		
C7404	1-104-664-11 ELECT	47μF	20% 16V	Q7410	8-729-120-28 TRANSISTOR 2SC1623-L5L6		
C7405	1-163-021-91 CERAMIC CHIP	0.01μF	10% 50V	<RESISTOR>			
C7406	1-163-021-91 CERAMIC CHIP	0.01μF	10% 50V	R7401	1-208-790-11 METAL CHIP	2.2K	0.50% 1/10W
C7407	1-104-989-91 MYLAR	0.0022μF	10% 200V	R7402	1-208-800-11 METAL CHIP	5.6K	0.50% 1/10W
C7408	1-104-989-91 MYLAR	0.0022μF	10% 200V	R7403	1-208-806-11 METAL CHIP	10K	0.50% 1/10W
C7409	1-107-667-11 ELECT	2.2μF	20% 160V	R7404	1-208-806-11 METAL CHIP	10K	0.50% 1/10W
C7410	1-130-471-00 MYLAR	0.001μF	5% 50V	R7405	1-216-475-11 METAL OXIDE	120	5% 3W
C7411	1-130-471-00 MYLAR	0.001μF	5% 50V	R7406	1-216-073-00 RES-CHIP	10K	5% 1/10W
C7412	1-107-364-11 MYLAR	0.01μF	10% 200V	R7407	1-249-385-11 CARBON	2.2	5% 1/4W
C7413	1-126-968-11 ELECT	100μF	20% 50V	R7408	1-216-475-11 METAL OXIDE	120	5% 3W
C7414	1-126-968-11 ELECT	100μF	20% 50V	R7409	1-216-009-91 RES-CHIP	22	5% 1/10W
C7415	1-107-645-11 ELECT	22μF	20% 200V	R7410	1-216-009-91 RES-CHIP	22	5% 1/10W
C7416	1-161-830-00 CERAMIC	0.0047μF	500V	R7411	1-249-414-11 CARBON	560	5% 1/4W
C7418	1-126-935-11 ELECT	470μF	20% 6.3V	R7412	1-216-033-00 RES-CHIP	220	5% 1/10W
<CONNECTOR>				R7413	1-216-049-91 RES-CHIP	1K	5% 1/10W
CN7401	* 1-564-509-11 PLUG, CONNECTOR 6P			R7414	1-216-033-00 RES-CHIP	220	5% 1/10W
CN7403	* 1-564-518-11 PLUG, CONNECTOR 3P			R7415	1-216-049-91 RES-CHIP	1K	5% 1/10W
CN7404	* 1-564-507-11 PLUG, CONNECTOR 4P			R7416	1-216-001-00 RES-CHIP	10	5% 1/10W
CN7405	* 1-580-844-11 PIN, CONNECTOR (POWER)			R7417	1-249-414-11 CARBON	560	5% 1/4W
<DIODE>				R7418	1-216-001-00 RES-CHIP	10	5% 1/10W
D7401	8-719-988-61 DIODE 1SS355TE-17			R7419	1-249-415-11 CARBON	680	5% 1/4W
D7403	8-719-921-86 DIODE MTZJ-13			R7420	1-247-863-91 CARBON	22K	5% 1/4W
D7404	8-719-921-86 DIODE MTZJ-13			R7421	1-247-863-91 CARBON	22K	5% 1/4W
				R7422	1-249-415-11 CARBON	680	5% 1/4W
				R7423	1-249-417-11 CARBON	1K	5% 1/4W
				R7424	1-249-405-11 CARBON	100	5% 1/4W
				R7425	1-249-385-11 CARBON	2.2	5% 1/4W
				R7426	1-249-385-11 CARBON	2.2	5% 1/4W
				R7427	1-249-405-11 CARBON	100	5% 1/4W
				R7428	1-215-913-11 METAL OXIDE	220	5% 3W
				R7431	1-216-049-91 RES-CHIP	1K	5% 1/10W
				R7432	1-216-025-91 RES-CHIP	100	5% 1/10W
				R7433	1-216-009-91 RES-CHIP	22	5% 1/10W
				R7434	1-216-295-91 SHORT	0	
				*****			

The components identified by shading  
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Replace only with part number specified.

KP-48PS1/53PS1/61PS1  
48PS1K/53PS1K/61PS1K

**ZG** **ZB** RM-892

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
* A-1391-000-A ZG BOARD, COMPLETE *****				Q7602	8-729-119-76	TRANSISTOR 2SA1175-HFE	
				Q7603	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
				Q7604	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
				Q7605	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
4-382-854-11 SCREW (M3X10), P, SW (+) (Q7608, Q7609)				Q7606	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
<CAPACITOR>				Q7607	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C7601	1-163-021-91	CERAMIC CHIP 0.01 $\mu$ F 10% 50V		Q7608	8-729-045-04	TRANSISTOR 2SC5511	
C7602	1-163-021-91	CERAMIC CHIP 0.01 $\mu$ F 10% 50V		Q7609	8-729-045-05	TRANSISTOR 2SA2005	
C7603	1-163-038-91	CERAMIC CHIP 0.1 $\mu$ F 25V		Q7610	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C7604	1-104-664-11	ELECT 47 $\mu$ F 20% 16V		<RESISTOR>			
C7605	1-104-989-91	MYLAR 0.0022 $\mu$ F 10% 200V		R7601	1-208-806-11	METAL CHIP 10K 0.50% 1/10W	
C7606	1-104-989-91	MYLAR 0.0022 $\mu$ F 10% 200V		R7602	1-208-790-11	METAL CHIP 2.2K 0.50% 1/10W	
C7607	1-107-667-11	ELECT 2.2 $\mu$ F 20% 160V		R7603	1-208-800-11	METAL CHIP 5.6K 0.50% 1/10W	
C7608	1-130-471-00	MYLAR 0.001 $\mu$ F 5% 50V		R7604	1-208-806-11	METAL CHIP 10K 0.50% 1/10W	
C7609	1-130-471-00	MYLAR 0.001 $\mu$ F 5% 50V		R7605	1-216-475-11	METAL OXIDE 120 5% 3W	
C7610	1-163-021-91	CERAMIC CHIP 0.01 $\mu$ F 10% 50V		R7606	1-216-033-00	RES-CHIP 220 5% 1/10W	
C7611	1-163-021-91	CERAMIC CHIP 0.01 $\mu$ F 10% 50V		R7607	1-216-033-00	RES-CHIP 220 5% 1/10W	
C7612	1-107-364-11	MYLAR 0.01 $\mu$ F 10% 200V		R7608	1-249-393-11	CARBON 10 5% 1/4W	
C7613	1-126-968-11	ELECT 100 $\mu$ F 20% 50V		R7609	1-216-001-00	RES-CHIP 10 5% 1/10W	
C7614	1-126-968-11	ELECT 100 $\mu$ F 20% 50V		R7610	1-249-385-11	CARBON 2.2 5% 1/4W	
C7615	1-107-645-11	ELECT 22 $\mu$ F 20% 200V		R7611	1-216-475-11	METAL OXIDE 120 5% 3W	
C7616	1-161-830-00	CERAMIC 0.0047 $\mu$ F 500V		R7612	1-249-414-11	CARBON 560 5% 1/4W	
C7617	1-106-220-00	MYLAR 0.1 $\mu$ F 10% 100V		R7613	1-216-073-00	RES-CHIP 10K 5% 1/10W	
C7618	1-106-220-00	MYLAR 0.1 $\mu$ F 10% 100V		R7614	1-249-414-11	CARBON 560 5% 1/4W	
C7620	1-126-935-11	ELECT 470 $\mu$ F 20% 6.3V		R7615	1-249-415-11	CARBON 680 5% 1/4W	
<CONNECTOR>				R7616	1-247-863-91	CARBON 22K 5% 1/4W	
CN7601	* 1-564-509-11	PLUG, CONNECTOR 6P		R7617	1-247-863-91	CARBON 22K 5% 1/4W	
CN7602	* 1-564-509-11	PLUG, CONNECTOR 6P		R7618	1-249-415-11	CARBON 680 5% 1/4W	
CN7603	* 1-564-507-11	PLUG, CONNECTOR 4P		R7619	1-216-009-91	RES-CHIP 22 5% 1/10W	
CN7604	* 1-564-506-11	PLUG, CONNECTOR 3P		R7620	1-216-009-91	RES-CHIP 22 5% 1/10W	
CN7605	* 1-564-506-11	PLUG, CONNECTOR 3P		R7621	1-249-417-11	CARBON 1K 5% 1/4W	
CN7606	* 1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P		R7622	1-216-049-91	RES-CHIP 1K 5% 1/10W	
CN7607	* 1-564-506-11	PLUG, CONNECTOR 3P		R7623	1-216-049-91	RES-CHIP 1K 5% 1/10W	
CN7608	* 1-564-507-11	PLUG, CONNECTOR 4P		R7624	1-249-405-11	CARBON 100 5% 1/4W	
<DIODE>				R7625	1-249-385-11	CARBON 2.2 5% 1/4W	
D7601	8-719-921-86	DIODE MTZJ-13		R7626	1-249-385-11	CARBON 2.2 5% 1/4W	
D7602	8-719-921-86	DIODE MTZJ-13		R7627	1-249-405-11	CARBON 100 5% 1/4W	
D7603	8-719-988-61	DIODE 1SS355TE-17		R7628	1-215-913-11	METAL OXIDE 220 5% 3W	
<DEFLECTION YOKE>				R7631	1-216-049-91	RES-CHIP 1K 5% 1/10W	
DY7601 $\triangle$	1-451-465-21	DEFLECTION YOKE (G)		R7632	1-216-025-91	RES-CHIP 100 5% 1/10W	
<COIL>				R7633	1-216-009-91	RES-CHIP 22 5% 1/10W	
L7601	1-412-911-11	FERRITE 0 $\mu$ H		R7634	1-216-295-91	SHORT 0	
L7602	1-414-187-11	INDUCTOR 47 $\mu$ H		*****			
<TRANSISTOR>				* A-1391-001-A ZB BOARD, COMPLETE *****			
Q7601	8-729-120-28	TRANSISTOR 2SC1623-L5L6		4-382-854-11 SCREW (M3X10), P, SW (+) (Q7808, Q7809)			
<CAPACITOR>				<CAPACITOR>			
C7801	1-163-021-91	CERAMIC CHIP 0.01 $\mu$ F 10% 50V		C7801	1-163-021-91	CERAMIC CHIP 0.01 $\mu$ F 10% 50V	
C7802	1-163-021-91	CERAMIC CHIP 0.01 $\mu$ F 10% 50V		C7802	1-163-021-91	CERAMIC CHIP 0.01 $\mu$ F 10% 50V	
C7803	1-163-038-91	CERAMIC CHIP 0.1 $\mu$ F 25V		C7803	1-163-038-91	CERAMIC CHIP 0.1 $\mu$ F 25V	
C7804	1-104-664-11	ELECT 47 $\mu$ F 20% 16V		C7804	1-104-664-11	ELECT 47 $\mu$ F 20% 16V	

**KP-48PS1/53PS1/61PS1**  
**48PS1K/53PS1K/61PS1K**



RM-892

The components identified by shading  
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Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C7805	1-104-989-91	MYLAR	0.0022 $\mu$ F 10% 200V	R7806	1-216-033-00	RES-CHIP 220	5% 1/10W
C7806	1-104-989-91	MYLAR	0.0022 $\mu$ F 10% 200V	R7807	1-216-475-11	METAL OXIDE 120	5% 3W
C7807	1-107-667-11	ELECT	2.2 $\mu$ F 20% 160V	R7808	1-216-001-00	RES-CHIP 10	5% 1/10W
C7808	1-130-471-00	MYLAR	0.001 $\mu$ F 5% 50V	R7809	1-216-001-00	RES-CHIP 10	5% 1/10W
C7809	1-130-471-00	MYLAR	0.001 $\mu$ F 5% 50V	R7810	1-249-385-11	CARBON 2.2	5% 1/4W
C7810	1-163-021-91	CERAMIC CHIP	0.01 $\mu$ F 10% 50V	R7811	1-216-475-11	METAL OXIDE 120	5% 3W
C7811	1-163-021-91	CERAMIC CHIP	0.01 $\mu$ F 10% 50V	R7812	1-216-073-00	RES-CHIP 10K	5% 1/10W
C7812	1-107-364-11	MYLAR	0.01 $\mu$ F 10% 200V	R7813	1-249-414-11	CARBON 560	5% 1/4W
C7813	1-126-968-11	ELECT	100 $\mu$ F 20% 50V	R7814	1-216-009-91	RES-CHIP 22	5% 1/10W
C7814	1-126-968-11	ELECT	100 $\mu$ F 20% 50V	R7815	1-216-009-91	RES-CHIP 22	5% 1/10W
C7815	1-107-645-11	ELECT	22 $\mu$ F 20% 200V	R7816	1-249-414-11	CARBON 560	5% 1/4W
C7816	1-161-830-00	CERAMIC	0.0047 $\mu$ F 500V	R7817	1-249-415-11	CARBON 680	5% 1/4W
C7818	1-126-935-11	ELECT	470 $\mu$ F 20% 6.3V	R7818	1-247-863-91	CARBON 22K	5% 1/4W
<CONNECTOR>				R7819	1-247-863-91	CARBON 22K	5% 1/4W
CN7801	* 1-564-509-11	PLUG, CONNECTOR 6P		R7820	1-249-415-11	CARBON 680	5% 1/4W
CN7802	* 1-564-507-11	PLUG, CONNECTOR 4P		R7821	1-249-417-11	CARBON 1K	5% 1/4W
CN7803	* 1-564-506-11	PLUG, CONNECTOR 3P		R7822	1-216-049-91	RES-CHIP 1K	5% 1/10W
CN7804	* 1-580-844-11	PIN, CONNECTOR (POWER)		R7823	1-216-049-91	RES-CHIP 1K	5% 1/10W
CN7805	* 1-564-506-11	PLUG, CONNECTOR 3P		R7824	1-249-405-11	CARBON 100	5% 1/4W
<DIODE>				R7825	1-249-385-11	CARBON 2.2	5% 1/4W
D7801	8-719-921-86	DIODE MTZJ-13		R7826	1-249-385-11	CARBON 2.2	5% 1/4W
D7802	8-719-921-86	DIODE MTZJ-13		R7827	1-249-405-11	CARBON 100	5% 1/4W
D7803	8-719-988-61	DIODE 1SS355TE-17		R7828	1-215-913-11	METAL OXIDE 220	5% 3W
<DEFLECTION YOKE>				R7831	1-216-049-91	RES-CHIP 1K	5% 1/10W
DY7801	$\Delta$ 1-451-465-21	DEFLECTION YOKE (B)		R7832	1-216-025-91	RES-CHIP 100	5% 1/10W
<COIL>				R7833	1-216-009-91	RES-CHIP 22	5% 1/10W
L7801	1-412-911-11	FERRITE	0 $\mu$ H	R7834	1-216-295-91	SHORT 0	
L7802	1-414-187-11	INDUCTOR	47 $\mu$ H	*****			
<TRANSISTOR>				* A-1332-020-A CR BOARD, COMPLETE			
Q7801	8-729-120-28	TRANSISTOR 2SC1623-L5L6		*****			
Q7802	8-729-119-76	TRANSISTOR 2SA1175-HFE		4-382-854-01 SCREW (M3X8), P, SW (+) (IC7101)			
Q7803	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		<CAPACITOR>			
Q7804	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		C7102	1-162-115-00	CERAMIC 330pF	10% 2KV
Q7805	8-729-120-28	TRANSISTOR 2SC1623-L5L6		C7103	1-107-652-11	ELECT 10 $\mu$ F	20% 250V
Q7806	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		C7104	1-126-768-11	ELECT 2200 $\mu$ F	20% 16V
Q7807	8-729-120-28	TRANSISTOR 2SC1623-L5L6		C7105	1-162-115-00	CERAMIC 330pF	10% 2KV
Q7808	8-729-045-04	TRANSISTOR 2SC5511		C7106	1-163-038-91	CERAMIC CHIP 0.1 $\mu$ F	25V
Q7809	8-729-045-05	TRANSISTOR 2SA2005		C7107	1-163-038-91	CERAMIC CHIP 0.1 $\mu$ F	25V
Q7810	8-729-120-28	TRANSISTOR 2SC1623-L5L6		C7108	1-126-967-11	ELECT 47 $\mu$ F	20% 50V
<RESISTOR>				C7110	1-102-050-00	CERAMIC 0.01 $\mu$ F	99% 500V
R7801	1-208-806-11	METAL CHIP 10K	0.50% 1/10W	C7111	1-161-830-00	CERAMIC 0.0047 $\mu$ F	500V
R7802	1-208-790-11	METAL CHIP 2.2K	0.50% 1/10W	C7112	1-163-224-11	CERAMIC CHIP 7pF	0.25pF 50V
R7803	1-208-800-11	METAL CHIP 5.6K	0.50% 1/10W	C7114	1-163-085-00	CERAMIC CHIP 2pF	0.25pF 50V
R7804	1-208-806-11	METAL CHIP 10K	0.50% 1/10W	C7116	1-107-957-11	ELECT 1 $\mu$ F	20% 250V
R7805	1-216-033-00	RES-CHIP 220	5% 1/10W	C7118	1-164-004-11	CERAMIC CHIP 0.1 $\mu$ F	10% 25V
<CONNECTOR>				<CONNECTOR>			
				CN7101	* 1-564-512-11	PLUG, CONNECTOR 9P	
				CN7102	* 1-564-510-11	PLUG, CONNECTOR 7P	
				CN7103	* 1-564-512-11	PLUG, CONNECTOR 9P	
				CN7104	1-785-879-11	CONNECTOR, ONE TOUCH	
				CN7107	1-695-915-11	TAB (CONTACT)	

The components identified by shading  
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Replace only with part number specified.

KP-48PS1/53PS1/61PS1  
48PS1K/53PS1K/61PS1K

**CR** **CG** RM-892

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
		<DIODE>		R7118	1-260-087-11	CARBON 100 5% 1/2W	
D7102	8-719-921-86	DIODE MTZJ-13		R7119	1-260-099-11	CARBON 1K 5% 1/2W	
D7103	8-719-901-83	DIODE 1SS83		R7120	1-216-081-00	RES-CHIP 22K 5% 1/10W	
D7104	8-719-901-83	DIODE 1SS83		R7121	1-216-295-91	SHORT 0	
D7105	8-719-901-83	DIODE 1SS83		R7122	1-216-025-91	RES-CHIP 100 5% 1/10W	
D7106	8-719-901-83	DIODE 1SS83		R7123	1-216-295-91	SHORT 0	
D7108	8-719-988-61	DIODE 1SS355TE-17		R7124	1-216-073-00	RES-CHIP 10K 5% 1/10W	
D7109	8-719-921-86	DIODE MTZJ-13		R7128	1-216-687-11	METAL CHIP 33K 0.50% 1/10W	
D7110	8-719-921-86	DIODE MTZJ-13		R7129	1-249-417-11	CARBON 1K 5% 1/4W	
		<IC>		R7130	1-216-069-00	RES-CHIP 6.8K 5% 1/10W	
IC7101	8-759-360-83	IC TDA6111Q/N4		R7131	1-216-049-91	RES-CHIP 1K 5% 1/10W	
		<SOCKET>		R7132	1-216-295-91	SHORT 0	
J7101	$\Delta$ 1-251-182-41	SOCKET, PICTURE TUBE		R7133	1-208-834-11	METAL CHIP 150K 0.50% 1/10W	
		<COIL>		R7134	1-216-049-91	RES-CHIP 1K 5% 1/10W	
L7102	1-414-223-11	INDUCTOR 470 $\mu$ H		R7135	1-216-053-00	RES-CHIP 1.5K 5% 1/10W	
L7103	1-414-181-11	INDUCTOR 4.7 $\mu$ H				<SPARK GAP>	
L7104	1-414-187-11	INDUCTOR 47 $\mu$ H		SG7101	1-519-422-11	GAP, SPARK	
		<NEON LAMP>		SG7103	1-519-422-11	GAP, SPARK	
NL7101	1-576-354-21	GAP, SPARK				<TEST PIN>	
NL7102	1-517-729-31	GAP, SPARK		TP7102	* 1-535-881-21	TERMINAL, TP (AUTO INSERTION)	
NL7103	1-576-354-21	GAP, SPARK		TP7105	* 1-535-881-21	TERMINAL, TP (AUTO INSERTION)	
NL7104	1-576-354-21	GAP, SPARK				*****	
NL7105	1-576-354-21	GAP, SPARK				* A-1332-021-A CG BOARD, COMPLETE	
		<TRANSISTOR>				*****	
Q7101	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R				4-382-854-01	SCREW (M3X8), P, SW (+) (IC7201)
Q7103	8-729-255-12	TRANSISTOR 2SC2551-O				<CAPACITOR>	
Q7104	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		C7202	1-162-115-00	CERAMIC 330pF 10% 2KV	
		<RESISTOR>		C7203	1-126-768-11	ELECT 2200 $\mu$ F 20% 16V	
R7101	1-260-132-11	CARBON 560K 5% 1/2W		C7204	1-107-652-11	ELECT 10 $\mu$ F 20% 250V	
R7102	1-249-389-11	CARBON 4.7 5% 1/4W		C7205	1-163-038-91	CERAMIC CHIP 0.1 $\mu$ F 25V	
R7103	1-216-295-91	SHORT 0		C7206	1-163-038-91	CERAMIC CHIP 0.1 $\mu$ F 25V	
R7105	1-260-117-11	CARBON 33K 5% 1/2W		C7207	1-162-115-00	CERAMIC 330pF 10% 2KV	
R7106	1-219-743-11	CARBON 100 5% 1/2W		C7208	1-126-967-11	ELECT 47 $\mu$ F 20% 50V	
R7107	1-208-801-11	METAL CHIP 6.2K 0.50% 1/10W		C7209	1-102-050-00	CERAMIC 0.01 $\mu$ F 99% 500V	
R7108	1-260-133-11	CARBON 680K 5% 1/2W		C7211	1-161-830-00	CERAMIC 0.0047 $\mu$ F 500V	
R7109	1-208-808-11	METAL CHIP 12K 0.50% 1/10W		C7212	1-163-224-11	CERAMIC CHIP 7pF 0.25pF 50V	
R7110	1-208-790-11	METAL CHIP 2.2K 0.50% 1/10W		C7213	1-163-085-00	CERAMIC CHIP 2pF 0.25pF 50V	
R7111	1-216-033-00	RES-CHIP 220 5% 1/10W		C7214	1-126-964-11	ELECT 10 $\mu$ F 20% 50V	
R7112	1-249-424-11	CARBON 3.9K 5% 1/4W		C7216	1-107-957-11	ELECT 1 $\mu$ F 20% 250V	
R7113	1-216-295-91	SHORT 0				<CONNECTOR>	
R7114	1-208-791-11	METAL CHIP 2.4K 0.50% 1/10W		CN7201	* 1-564-510-11	PLUG, CONNECTOR 7P	
R7115	1-208-782-11	METAL CHIP 1K 0.50% 1/10W		CN7202	* 1-564-509-11	PLUG, CONNECTOR 6P	
R7116	1-215-929-11	METAL OXIDE 100K 5% 3W		CN7203	* 1-564-512-11	PLUG, CONNECTOR 9P	
R7117	1-260-093-11	CARBON 330 5% 1/2W		CN7204	* 1-564-512-11	PLUG, CONNECTOR 9P	
				CN7205	1-785-879-11	CONNECTOR, ONE TOUCH	
				CN7208	1-695-915-11	TAB (CONTACT)	
				CN7210	* 1-564-506-11	PLUG, CONNECTOR 3P	

**KP-48PS1/53PS1/61PS1**  
**48PS1K/53PS1K/61PS1K**



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The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
		<DIODE>		R7219	1-216-295-91	SHORT	0
				R7220	1-216-025-91	RES-CHIP	100 5% 1/10W
D7202	8-719-921-86	DIODE MTZJ-13		R7222	1-216-295-91	SHORT	0
D7203	8-719-901-83	DIODE 1SS83		R7223	1-208-802-11	METAL CHIP	6.8K 0.50% 1/10W
D7204	8-719-901-83	DIODE 1SS83		R7224	1-208-799-11	METAL CHIP	5.1K 0.50% 1/10W
D7205	8-719-901-83	DIODE 1SS83		R7225	1-216-081-00	RES-CHIP	22K 5% 1/10W
D7206	8-719-901-83	DIODE 1SS83		R7226	1-260-087-11	CARBON	100 5% 1/2W
D7208	8-719-988-61	DIODE 1SS355TE-17		R7229	1-249-417-11	CARBON	1K 5% 1/4W
				R7235	1-216-053-00	RES-CHIP	1.5K 5% 1/10W
		<IC>					
IC7201	8-759-360-83	IC TDA6111Q/N4				<SPARK GAP>	
				SG7201	1-519-422-11	GAP, SPARK	
		<SOCKET>		SG7203	1-519-422-11	GAP, SPARK	
J7201	$\Delta$ 1-251-182-41	SOCKET, PICTURE TUBE					
						<TEST PIN>	
		<COIL>		TP7202	* 1-535-881-21	TERMINAL, TP (AUTO INSERTION)	
L7201	1-414-223-11	INDUCTOR 470 $\mu$ H		TP7205	* 1-535-881-21	TERMINAL, TP (AUTO INSERTION)	
L7203	1-414-181-11	INDUCTOR 4.7 $\mu$ H				*****	
L7204	1-414-187-11	INDUCTOR 47 $\mu$ H				* A-1332-022-A CB BOARD, COMPLETE	
						*****	
						4-382-854-01	SCREW (M3X8), P, SW (+) (IC7301)
		<NEON LAMP>					
NL7201	1-576-354-21	GAP, SPARK				<CAPACITOR>	
NL7202	1-576-354-21	GAP, SPARK		C7302	1-162-115-00	CERAMIC 330pF	10% 2KV
NL7203	1-517-729-31	GAP, SPARK		C7303	1-162-115-00	CERAMIC 330pF	10% 2KV
NL7204	1-576-354-21	GAP, SPARK		C7304	1-126-768-11	ELECT 2200 $\mu$ F	20% 16V
NL7205	1-576-354-21	GAP, SPARK		C7305	1-163-038-91	CERAMIC CHIP 0.1 $\mu$ F	25V
				C7306	1-163-038-91	CERAMIC CHIP 0.1 $\mu$ F	25V
		<TRANSISTOR>					
Q7201	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		C7307	1-107-652-11	ELECT 10 $\mu$ F	20% 250V
Q7202	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		C7308	1-126-967-11	ELECT 47 $\mu$ F	20% 50V
Q7203	8-729-255-12	TRANSISTOR 2SC2551-O		C7309	1-163-085-00	CERAMIC CHIP 2pF	0.25pF 50V
				C7311	1-102-050-00	CERAMIC 0.01 $\mu$ F	99% 500V
				C7312	1-161-830-00	CERAMIC 0.0047 $\mu$ F	500V
		<RESISTOR>					
R7201	1-260-132-11	CARBON 560K	5% 1/2W	C7313	1-163-091-00	CERAMIC CHIP 8pF	0.25pF 50V
R7202	1-216-295-91	SHORT 0		C7314	1-126-964-11	ELECT 10 $\mu$ F	20% 50V
R7203	1-208-846-11	METAL CHIP 470K	0.50% 1/10W	C7315	1-126-960-11	ELECT 1 $\mu$ F	20% 50V
R7204	1-219-743-11	CARBON 100	5% 1/2W	C7318	1-107-957-11	ELECT 1 $\mu$ F	20% 250V
R7205	1-260-117-11	CARBON 33K	5% 1/2W				
						<CONNECTOR>	
R7206	1-208-801-11	METAL CHIP 6.2K	0.50% 1/10W	CN7301	* 1-564-509-11	PLUG, CONNECTOR 6P	
R7207	1-208-808-11	METAL CHIP 12K	0.50% 1/10W	CN7302	* 1-564-512-11	PLUG, CONNECTOR 9P	
R7208	1-216-033-00	RES-CHIP 220	5% 1/10W	CN7303	* 1-564-512-11	PLUG, CONNECTOR 9P	
R7209	1-260-133-11	CARBON 680K	5% 1/2W	CN7304	1-785-879-11	CONNECTOR, ONE TOUCH	
R7210	1-208-790-11	METAL CHIP 2.2K	0.50% 1/10W	CN7307	1-695-915-11	TAB (CONTACT)	
R7211	1-249-424-11	CARBON 3.9K	5% 1/4W			<DIODE>	
R7212	1-208-789-11	METAL CHIP 2K	0.50% 1/10W	D7302	8-719-921-86	DIODE MTZJ-13	
R7213	1-215-929-11	METAL OXIDE 100K	5% 3W	D7303	8-719-901-83	DIODE 1SS83	
R7214	1-216-295-91	SHORT 0		D7304	8-719-901-83	DIODE 1SS83	
R7215	1-208-782-11	METAL CHIP 1K	0.50% 1/10W	D7305	8-719-901-83	DIODE 1SS83	
				D7306	8-719-901-83	DIODE 1SS83	
R7216	1-260-093-11	CARBON 330	5% 1/2W				
R7217	1-216-295-91	SHORT 0					
R7218	1-260-099-11	CARBON 1K	5% 1/2W				

The components identified by shading  
and mark  $\triangle$  are critical for safety.  
Replace only with part number specified.

KP-48PS1/53PS1/61PS1  
48PS1K/53PS1K/61PS1K

**CB** **B3** RM-892

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
D7307	8-719-988-61	DIODE 1SS355TE-17		R7323	1-216-025-91	RES-CHIP 100	5% 1/10W
D7308	8-719-921-88	DIODE MTZJ-13B		R7324	1-216-295-91	SHORT 0	
D7309	8-719-988-61	DIODE 1SS355TE-17		R7326	1-208-803-11	METAL CHIP 7.5K	0.50% 1/10W
D7311	8-719-921-86	DIODE MTZJ-13		R7327	1-208-798-11	METAL CHIP 4.7K	0.50% 1/10W
D7312	8-719-921-86	DIODE MTZJ-13		R7328	1-216-073-00	RES-CHIP 10K	5% 1/10W
	<IC>			R7329	1-216-091-00	RES-CHIP 56K	5% 1/10W
IC7301	8-759-360-83	IC TDA6111Q/N4		R7330	1-216-081-00	RES-CHIP 22K	5% 1/10W
	<SOCKET>			R7331	1-216-055-00	RES-CHIP 1.8K	5% 1/10W
J7301	$\triangle$ 1-251-182-41	SOCKET, PICTURE TUBE		R7332	1-216-081-00	RES-CHIP 22K	5% 1/10W
	<COIL>			R7335	1-249-417-11	CARBON 1K	5% 1/4W
L7301	1-414-223-11	INDUCTOR 470 $\mu$ H		R7336	1-216-053-00	RES-CHIP 1.5K	5% 1/10W
L7303	1-414-181-11	INDUCTOR 4.7 $\mu$ H			<SPARK GAP>		
L7304	1-414-187-11	INDUCTOR 47 $\mu$ H		SG7301	1-519-422-11	GAP, SPARK	
	<NEON LAMP>			SG7303	1-519-422-11	GAP, SPARK	
NL7301	1-576-354-21	GAP, SPARK			<TEST PIN>		
NL7302	1-517-729-31	GAP, SPARK		TP7302	* 1-535-881-21	TERMINAL, TP (AUTO INSERTION)	
NL7303	1-576-354-21	GAP, SPARK		TP7304	* 1-535-881-21	TERMINAL, TP (AUTO INSERTION)	
NL7304	1-576-354-21	GAP, SPARK		*****			
NL7305	1-576-354-21	GAP, SPARK		* A-1136-076-A B3 BOARD, COMPLETE			
	<TRANSISTOR>			*****			
Q7301	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R			<CAPACITOR>		
Q7302	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		C302	1-104-601-11	ELECT CHIP 10 $\mu$ F	20% 10V
Q7303	8-729-255-12	TRANSISTOR 2SC2551-O		C305	1-163-038-91	CERAMIC CHIP 0.1 $\mu$ F	25V
Q7305	8-729-120-28	TRANSISTOR 2SC1623-L5L6		C306	1-164-004-11	CERAMIC CHIP 0.1 $\mu$ F	10% 25V
Q7306	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		C309	1-164-004-11	CERAMIC CHIP 0.1 $\mu$ F	10% 25V
	<RESISTOR>			C310	1-163-038-91	CERAMIC CHIP 0.1 $\mu$ F	25V
R7301	1-219-743-11	CARBON 100	5% 1/2W	C312	1-163-275-11	CERAMIC CHIP 0.001 $\mu$ F	5% 50V
R7302	1-260-132-11	CARBON 560K	5% 1/2W	C313	1-164-004-11	CERAMIC CHIP 0.1 $\mu$ F	10% 25V
R7304	1-216-295-91	SHORT 0		C314	1-164-004-11	CERAMIC CHIP 0.1 $\mu$ F	10% 25V
R7306	1-260-099-11	CARBON 1K	5% 1/2W	C315	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
R7307	1-208-801-11	METAL CHIP 6.2K	0.50% 1/10W	C316	1-163-038-91	CERAMIC CHIP 0.1 $\mu$ F	25V
R7308	1-260-133-11	CARBON 680K	5% 1/2W	C317	1-163-021-91	CERAMIC CHIP 0.01 $\mu$ F	10% 50V
R7309	1-208-792-11	METAL CHIP 2.7K	0.50% 1/10W	C318	1-124-779-00	ELECT CHIP 10 $\mu$ F	20% 16V
R7310	1-216-295-91	SHORT 0		C319	1-124-779-00	ELECT CHIP 10 $\mu$ F	20% 16V
R7311	1-208-808-11	METAL CHIP 12K	0.50% 1/10W	C320	1-163-021-91	CERAMIC CHIP 0.01 $\mu$ F	10% 50V
R7312	1-216-660-11	METAL CHIP 2.4K	0.50% 1/10W	C321	1-163-021-91	CERAMIC CHIP 0.01 $\mu$ F	10% 50V
R7313	1-216-033-00	RES-CHIP 220	5% 1/10W	C323	1-163-021-91	CERAMIC CHIP 0.01 $\mu$ F	10% 50V
R7314	1-249-424-11	CARBON 3.9K	5% 1/4W	C324	1-163-021-91	CERAMIC CHIP 0.01 $\mu$ F	10% 50V
R7315	1-216-295-91	SHORT 0		C325	1-163-021-91	CERAMIC CHIP 0.01 $\mu$ F	10% 50V
R7316	1-215-929-11	METAL OXIDE 100K	5% 3W	C327	1-164-004-11	CERAMIC CHIP 0.1 $\mu$ F	10% 25V
R7317	1-260-093-11	CARBON 330	5% 1/2W	C330	1-164-004-11	CERAMIC CHIP 0.1 $\mu$ F	10% 25V
R7318	1-216-295-91	SHORT 0		C331	1-164-004-11	CERAMIC CHIP 0.1 $\mu$ F	10% 25V
R7319	1-216-660-11	METAL CHIP 2.4K	0.50% 1/10W	C332	1-163-021-91	CERAMIC CHIP 0.01 $\mu$ F	10% 50V
R7320	1-260-087-11	CARBON 100	5% 1/2W	C333	1-216-295-91	SHORT 0	
R7321	1-260-117-11	CARBON 33K	5% 1/2W	C337	1-163-038-91	CERAMIC CHIP 0.1 $\mu$ F	25V
R7322	1-208-782-11	METAL CHIP 1K	0.50% 1/10W	C338	1-164-004-11	CERAMIC CHIP 0.1 $\mu$ F	10% 25V
				C339	1-164-004-11	CERAMIC CHIP 0.1 $\mu$ F	10% 25V
				C340	1-163-038-91	CERAMIC CHIP 0.1 $\mu$ F	25V
				C341	1-163-021-91	CERAMIC CHIP 0.01 $\mu$ F	10% 50V

KP-48PS1/53PS1/61PS1  
48PS1K/53PS1K/61PS1K

**B3**

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C346	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C559	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C347	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C560	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C349	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C601	1-124-779-00	ELECT CHIP 10μF	20% 16V
C350	1-126-204-11	ELECT CHIP 47μF	20% 16V	C602	1-126-394-11	ELECT CHIP 10μF	20% 16V
C353	1-126-204-11	ELECT CHIP 47μF	20% 16V	C603	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C354	1-104-601-11	ELECT CHIP 10μF	20% 10V	C604	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C355	1-104-601-11	ELECT CHIP 10μF	20% 10V	C605	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C357	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C606	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C358	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C607	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C359	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C608	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C360	1-163-227-11	CERAMIC CHIP 10pF	0.5pF 50V	C609	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C361	1-124-779-00	ELECT CHIP 10μF	20% 16V	C610	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C362	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C611	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C363	1-163-017-00	CERAMIC CHIP 0.0047μF	10% 50V	C612	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C501	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C613	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C502	1-124-779-00	ELECT CHIP 10μF	20% 16V	C614	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C503	1-124-779-00	ELECT CHIP 10μF	20% 16V	C615	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C505	1-124-779-00	ELECT CHIP 10μF	20% 16V	C616	1-126-396-11	ELECT CHIP 47μF	20% 16V
C507	1-124-779-00	ELECT CHIP 10μF	20% 16V	C617	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C509	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C618	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C510	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C619	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C511	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C620	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C512	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C621	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C514	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	C622	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C515	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C623	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C516	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	C624	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C517	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C625	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C518	1-126-204-11	ELECT CHIP 47μF	20% 16V	C626	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C519	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C627	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C520	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C628	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C521	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C629	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C522	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C630	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C523	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C631	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C524	1-124-779-00	ELECT CHIP 10μF	20% 16V	C632	1-126-206-11	ELECT CHIP 100μF	20% 6.3V
C525	1-124-779-00	ELECT CHIP 10μF	20% 16V	C633	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C526	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C634	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C527	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	C635	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C528	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C636	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C530	1-216-295-91	SHORT 0		C637	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C532	1-216-295-91	SHORT 0		C638	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C534	1-216-295-91	SHORT 0		C639	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C538	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C640	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C539	1-126-204-11	ELECT CHIP 47μF	20% 16V	C642	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C540	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C643	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C542	1-126-204-11	ELECT CHIP 47μF	20% 16V	C644	1-126-603-11	ELECT CHIP 4.7μF	20% 35V
C543	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C645	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C545	1-126-396-11	ELECT CHIP 47μF	20% 16V	C646	1-163-243-11	CERAMIC CHIP 47pF	5% 50V
C546	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C801	1-124-779-00	ELECT CHIP 10μF	20% 16V
C548	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C802	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C549	1-126-204-11	ELECT CHIP 47μF	20% 16V	C803	1-124-779-00	ELECT CHIP 10μF	20% 16V
C550	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C804	1-124-779-00	ELECT CHIP 10μF	20% 16V
C551	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C806	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C554	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C807	1-124-779-00	ELECT CHIP 10μF	20% 16V
C555	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C808	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C556	1-126-392-11	ELECT CHIP 100μF	20% 6.3V	C809	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
C557	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	C810	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C811	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FB801	1-414-553-11	FERRITE 0μH	
C812	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FB802	1-414-553-11	FERRITE 0μH	
C813	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V				
C814	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V				
C815	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V			<FILTER>	
C816	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FL304	1-234-177-21	FILTER, CHIP EMI	
C817	1-163-229-11	CERAMIC CHIP 12pF	5% 50V	FL305	1-234-177-21	FILTER, CHIP EMI	
C818	1-163-229-11	CERAMIC CHIP 12pF	5% 50V	FL306	1-239-558-11	FILTER, CHIP EMI	
C819	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FL501	1-233-877-11	FILTER, LOW PASS	
C820	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FL502	1-233-504-21	FILTER, LOW PASS	
C821	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FL503	1-233-504-21	FILTER, LOW PASS	
C822	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FL504	1-234-177-21	FILTER, CHIP EMI	
C823	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FL505	1-234-177-21	FILTER, CHIP EMI	
C824	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FL506	1-234-177-21	FILTER, CHIP EMI	
C825	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FL508	1-234-177-21	FILTER, CHIP EMI	
C826	1-164-489-11	CERAMIC CHIP 0.22μF	10% 16V	FL509	1-234-177-21	FILTER, CHIP EMI	
C827	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FL510	1-234-177-21	FILTER, CHIP EMI	
C829	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FL511	1-234-177-21	FILTER, CHIP EMI	
C834	1-163-038-91	CERAMIC CHIP 0.1μF	25V	FL512	1-234-177-21	FILTER, CHIP EMI	
C835	1-163-038-91	CERAMIC CHIP 0.1μF	25V	FL601	1-234-177-21	FILTER, CHIP EMI	
C837	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FL602	1-234-177-21	FILTER, CHIP EMI	
C839	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FL603	1-234-177-21	FILTER, CHIP EMI	
C840	1-126-206-11	ELECT CHIP 100μF	20% 6.3V	FL606	1-239-560-11	FILTER, CHIP EMI	
C841	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FL801	1-234-177-21	FILTER, CHIP EMI	
C842	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FL802	1-234-177-21	FILTER, CHIP EMI	
C843	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FL803	1-234-177-21	FILTER, CHIP EMI	
C844	1-163-038-91	CERAMIC CHIP 0.1μF	25V	FL804	1-234-177-21	FILTER, CHIP EMI	
C848	1-163-017-00	CERAMIC CHIP 0.0047μF	10% 50V	FL805	1-234-177-21	FILTER, CHIP EMI	
C849	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FL806	1-234-177-21	FILTER, CHIP EMI	
C850	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FL807	1-234-177-21	FILTER, CHIP EMI	
C851	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FL808	1-234-177-21	FILTER, CHIP EMI	
C852	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FL810	1-234-177-21	FILTER, CHIP EMI	
C901	1-163-038-91	CERAMIC CHIP 0.1μF	25V	FL901	1-234-509-21	FILTER, LOW PASS	
C902	1-163-038-91	CERAMIC CHIP 0.1μF	25V	FL902	1-233-876-11	FILTER, LOW PASS	
C903	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	FL903	1-233-876-11	FILTER, LOW PASS	
C904	1-124-779-00	ELECT CHIP 10μF	20% 16V	FL904	1-234-177-21	FILTER, CHIP EMI	
C905	1-109-982-11	CERAMIC CHIP 1μF	10% 10V	FL905	1-234-177-21	FILTER, CHIP EMI	
C906	1-124-779-00	ELECT CHIP 10μF	20% 16V				
C907	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V			<IC>	
		<CONNECTOR>		IC302	8-752-388-98	IC CXD2303AQ-TL	
CN502	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P		IC303	8-752-088-27	IC CXA3266Q-T6	
				IC304	8-759-285-51	IC PC74HC00D-T	
				IC305	8-759-232-74	IC TC74HC163AF	
				IC306	8-759-232-74	IC TC74HC163AF	
		<DIODE>		IC307	8-759-084-79	IC TC7S14F	
D301	8-719-041-97	DIODE MA113-(TX)		IC308	8-759-084-79	IC TC7S14F	
D302	8-719-041-97	DIODE MA113-(TX)		IC309	8-759-640-16	IC TC7SET04F(TE85R)	
D501	8-719-422-12	DIODE MA8039		IC310	8-759-285-52	IC PC74HC02D-T	
				IC311	8-759-708-05	IC NJM78L05A	
		<FERRITE BEAD>		IC501	8-759-447-90	IC TLC5733AIPM	
FB501	1-414-813-11	FERRITE 0μH		IC504	8-759-430-32	IC TLC2933IPWR	
FB502	1-414-813-11	FERRITE 0μH		IC505	8-759-640-16	IC TC7SET04F(TE85R)	
FB503	1-414-813-11	FERRITE 0μH		IC506	8-759-640-16	IC TC7SET04F(TE85R)	
FB504	1-414-813-11	FERRITE 0μH		IC601	8-752-398-47	IC CXD2090Q	
FB601	1-414-553-11	FERRITE 0μH		IC602	8-759-567-37	IC MB81F161622B-80FN	

KP-48PS1/53PS1/61PS1  
48PS1K/53PS1K/61PS1K

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
IC603	8-759-295-09	IC TLC2932IPW		<RESISTOR>			
IC604	8-752-072-94	IC CXA1875AM-T4		R302	1-216-013-00	RES-CHIP 33	5% 1/10W
IC801	8-759-592-40	IC CXD9509Q		R303	1-216-667-11	METAL CHIP 4.7K	0.50% 1/10W
IC802	8-759-595-53	IC MB81F643242B-10FN		R305	1-216-049-91	RES-CHIP 1K	5% 1/10W
IC901	8-752-367-59	IC CXD2309Q		R306	1-216-658-11	METAL CHIP 2K	0.50% 1/10W
				R309	1-216-009-91	RES-CHIP 22	5% 1/10W
		<COIL>		R310	1-216-009-91	RES-CHIP 22	5% 1/10W
L302	1-412-029-11	INDUCTOR CHIP 10μH		R311	1-216-009-91	RES-CHIP 22	5% 1/10W
L303	1-412-029-11	INDUCTOR CHIP 10μH		R313	1-216-009-91	RES-CHIP 22	5% 1/10W
L501	1-412-026-11	INDUCTOR CHIP 1μH		R316	1-216-009-91	RES-CHIP 22	5% 1/10W
L502	1-412-026-11	INDUCTOR CHIP 1μH		R318	1-216-009-91	RES-CHIP 22	5% 1/10W
L503	1-412-026-11	INDUCTOR CHIP 1μH		R319	1-216-049-91	RES-CHIP 1K	5% 1/10W
L504	1-412-026-11	INDUCTOR CHIP 1μH		R321	1-216-009-91	RES-CHIP 22	5% 1/10W
L505	1-412-029-11	INDUCTOR CHIP 10μH		R323	1-216-009-91	RES-CHIP 22	5% 1/10W
L506	1-412-026-11	INDUCTOR CHIP 1μH		R324	1-216-009-91	RES-CHIP 22	5% 1/10W
L508	1-412-029-11	INDUCTOR CHIP 10μH		R325	1-216-073-00	RES-CHIP 10K	5% 1/10W
L509	1-412-029-11	INDUCTOR CHIP 10μH		R328	1-216-025-91	RES-CHIP 100	5% 1/10W
L511	1-412-026-11	INDUCTOR CHIP 1μH		R330	1-216-037-00	RES-CHIP 330	5% 1/10W
L512	1-412-026-11	INDUCTOR CHIP 1μH		R331	1-216-033-00	RES-CHIP 220	5% 1/10W
L604	1-412-029-11	INDUCTOR CHIP 10μH		R332	1-216-037-00	RES-CHIP 330	5% 1/10W
L605	1-412-029-11	INDUCTOR CHIP 10μH		R333	1-216-295-91	SHORT 0	
		<TRANSISTOR>		R335	1-216-013-00	RES-CHIP 33	5% 1/10W
Q301	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R336	1-216-013-00	RES-CHIP 33	5% 1/10W
Q302	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R337	1-216-097-91	RES-CHIP 100K	5% 1/10W
Q303	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R338	1-216-295-91	SHORT 0	
Q501	8-729-216-22	TRANSISTOR 2SA1162-G		R339	1-216-295-91	SHORT 0	
Q502	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R340	1-216-073-00	RES-CHIP 10K	5% 1/10W
Q503	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R341	1-216-295-91	SHORT 0	
Q510	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R342	1-216-295-91	SHORT 0	
Q511	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R344	1-216-295-91	SHORT 0	
Q512	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R345	1-216-073-00	RES-CHIP 10K	5% 1/10W
Q516	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R347	1-216-295-91	SHORT 0	
Q517	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R350	1-216-295-91	SHORT 0	
Q518	8-729-216-22	TRANSISTOR 2SA1162-G		R501	1-216-025-91	RES-CHIP 100	5% 1/10W
Q519	1-801-806-11	TRANSISTOR DTC144EKA		R502	1-216-025-91	RES-CHIP 100	5% 1/10W
Q520	1-801-806-11	TRANSISTOR DTC144EKA		R503	1-216-295-91	SHORT 0	
Q521	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R504	1-216-295-91	SHORT 0	
Q522	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R505	1-216-295-91	SHORT 0	
Q523	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R506	1-216-025-91	RES-CHIP 100	5% 1/10W
Q524	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R507	1-216-025-91	RES-CHIP 100	5% 1/10W
Q601	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R508	1-216-025-91	RES-CHIP 100	5% 1/10W
Q602	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R509	1-216-025-91	RES-CHIP 100	5% 1/10W
Q901	8-729-216-22	TRANSISTOR 2SA1162-G		R510	1-216-043-91	RES-CHIP 560	5% 1/10W
Q902	8-729-216-22	TRANSISTOR 2SA1162-G		R511	1-216-043-91	RES-CHIP 560	5% 1/10W
Q903	8-729-216-22	TRANSISTOR 2SA1162-G		R512	1-216-043-91	RES-CHIP 560	5% 1/10W
Q904	8-729-028-28	TRANSISTOR 2SK2036 (TE85L)		R513	1-216-043-91	RES-CHIP 560	5% 1/10W
Q905	8-729-028-28	TRANSISTOR 2SK2036 (TE85L)		R514	1-216-043-91	RES-CHIP 560	5% 1/10W
Q907	8-729-216-22	TRANSISTOR 2SA1162-G		R515	1-216-043-91	RES-CHIP 560	5% 1/10W
Q908	8-729-216-22	TRANSISTOR 2SA1162-G		R516	1-216-049-91	RES-CHIP 1K	5% 1/10W
Q909	8-729-216-22	TRANSISTOR 2SA1162-G		R517	1-216-049-91	RES-CHIP 1K	5% 1/10W
				R518	1-216-295-91	SHORT 0	
				R520	1-216-645-11	METAL CHIP 560	0.50% 1/10W
				R521	1-216-295-91	SHORT 0	
				R523	1-216-645-11	METAL CHIP 560	0.50% 1/10W
				R524	1-216-295-91	SHORT 0	
				R526	1-216-645-11	METAL CHIP 560	0.50% 1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R528	1-216-037-00	RES-CHIP	330 5% 1/10W	R622	1-216-295-91	SHORT	0
R529	1-216-669-11	METAL CHIP	5.6K 0.50% 1/10W	R623	1-216-295-91	SHORT	0
R530	1-216-669-11	METAL CHIP	5.6K 0.50% 1/10W	R625	1-216-295-91	SHORT	0
R531	1-216-031-00	RES-CHIP	180 5% 1/10W	R626	1-216-073-00	RES-CHIP	10K 5% 1/10W
R532	1-216-669-11	METAL CHIP	5.6K 0.50% 1/10W	R628	1-216-295-91	SHORT	0
R533	1-216-031-00	RES-CHIP	180 5% 1/10W	R629	1-216-073-00	RES-CHIP	10K 5% 1/10W
R536	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R631	1-216-295-91	SHORT	0
R537	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W	R634	1-216-295-91	SHORT	0
R540	1-216-049-91	RES-CHIP	1K 5% 1/10W	R635	1-216-295-91	SHORT	0
R548	1-216-619-11	METAL CHIP	47 0.50% 1/10W	R638	1-216-295-91	SHORT	0
R549	1-216-619-11	METAL CHIP	47 0.50% 1/10W	R639	1-216-017-91	RES-CHIP	47 5% 1/10W
R550	1-216-625-11	METAL CHIP	82 0.50% 1/10W	R640	1-216-009-91	RES-CHIP	22 5% 1/10W
R551	1-216-625-11	METAL CHIP	82 0.50% 1/10W	R642	1-216-295-91	SHORT	0
R552	1-216-619-11	METAL CHIP	47 0.50% 1/10W	R643	1-216-295-91	SHORT	0
R553	1-216-295-91	SHORT	0	R645	1-216-295-91	SHORT	0
R554	1-216-619-11	METAL CHIP	47 0.50% 1/10W	R651	1-216-295-91	SHORT	0
R555	1-216-077-91	RES-CHIP	15K 5% 1/10W	R653	1-216-025-91	RES-CHIP	100 5% 1/10W
R557	1-216-049-91	RES-CHIP	1K 5% 1/10W	R654	1-216-033-00	RES-CHIP	220 5% 1/10W
R558	1-216-025-91	RES-CHIP	100 5% 1/10W	R655	1-216-295-91	SHORT	0
R559	1-216-077-91	RES-CHIP	15K 5% 1/10W	R657	1-216-009-91	RES-CHIP	22 5% 1/10W
R560	1-216-619-11	METAL CHIP	47 0.50% 1/10W	R658	1-216-049-91	RES-CHIP	1K 5% 1/10W
R561	1-216-043-91	RES-CHIP	560 5% 1/10W	R659	1-216-025-91	RES-CHIP	100 5% 1/10W
R562	1-216-043-91	RES-CHIP	560 5% 1/10W	R660	1-216-025-91	RES-CHIP	100 5% 1/10W
R563	1-216-043-91	RES-CHIP	560 5% 1/10W	R661	1-216-025-91	RES-CHIP	100 5% 1/10W
R571	1-216-295-91	SHORT	0	R664	1-216-009-91	RES-CHIP	22 5% 1/10W
R572	1-216-619-11	METAL CHIP	47 0.50% 1/10W	R665	1-216-035-00	RES-CHIP	270 5% 1/10W
R573	1-216-679-11	METAL CHIP	15K 0.50% 1/10W	R666	1-216-646-11	METAL CHIP	620 0.50% 1/10W
R574	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R667	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W
R575	1-216-625-11	METAL CHIP	82 0.50% 1/10W	R668	1-216-009-91	RES-CHIP	22 5% 1/10W
R576	1-216-625-11	METAL CHIP	82 0.50% 1/10W	R670	1-216-295-91	SHORT	0
R577	1-216-619-11	METAL CHIP	47 0.50% 1/10W	R671	1-216-073-00	RES-CHIP	10K 5% 1/10W
R578	1-216-619-11	METAL CHIP	47 0.50% 1/10W	R672	1-216-073-00	RES-CHIP	10K 5% 1/10W
R579	1-216-077-91	RES-CHIP	15K 5% 1/10W	R673	1-216-073-00	RES-CHIP	10K 5% 1/10W
R580	1-216-295-91	SHORT	0	R674	1-216-073-00	RES-CHIP	10K 5% 1/10W
R582	1-216-041-00	RES-CHIP	470 5% 1/10W	R675	1-216-073-00	RES-CHIP	10K 5% 1/10W
R584	1-216-041-00	RES-CHIP	470 5% 1/10W	R676	1-216-073-00	RES-CHIP	10K 5% 1/10W
R594	1-216-041-00	RES-CHIP	470 5% 1/10W	R677	1-216-073-00	RES-CHIP	10K 5% 1/10W
R596	1-216-049-91	RES-CHIP	1K 5% 1/10W	R678	1-216-073-00	RES-CHIP	10K 5% 1/10W
R597	1-216-073-00	RES-CHIP	10K 5% 1/10W	R679	1-216-073-00	RES-CHIP	10K 5% 1/10W
R600	1-216-066-00	RES-CHIP	5.1K 5% 1/10W	R680	1-216-073-00	RES-CHIP	10K 5% 1/10W
R601	1-216-073-00	RES-CHIP	10K 5% 1/10W	R681	1-216-073-00	RES-CHIP	10K 5% 1/10W
R602	1-216-073-00	RES-CHIP	10K 5% 1/10W	R682	1-216-073-00	RES-CHIP	10K 5% 1/10W
R603	1-216-073-00	RES-CHIP	10K 5% 1/10W	R683	1-216-073-00	RES-CHIP	10K 5% 1/10W
R604	1-216-033-00	RES-CHIP	220 5% 1/10W	R684	1-216-073-00	RES-CHIP	10K 5% 1/10W
R605	1-216-295-91	SHORT	0	R685	1-216-073-00	RES-CHIP	10K 5% 1/10W
R608	1-216-295-91	SHORT	0	R686	1-216-073-00	RES-CHIP	10K 5% 1/10W
R609	1-216-073-00	RES-CHIP	10K 5% 1/10W	R687	1-216-295-91	SHORT	0
R610	1-216-033-00	RES-CHIP	220 5% 1/10W	R688	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R611	1-216-073-00	RES-CHIP	10K 5% 1/10W	R689	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R612	1-216-073-00	RES-CHIP	10K 5% 1/10W	R690	1-216-295-91	SHORT	0
R613	1-216-073-00	RES-CHIP	10K 5% 1/10W	R691	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R616	1-216-073-00	RES-CHIP	10K 5% 1/10W	R692	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R617	1-216-295-91	SHORT	0	R693	1-216-009-91	RES-CHIP	22 5% 1/10W
R618	1-216-295-91	SHORT	0	R694	1-216-295-91	SHORT	0
R619	1-216-073-00	RES-CHIP	10K 5% 1/10W	R695	1-216-047-91	RES-CHIP	820 5% 1/10W
R621	1-216-295-91	SHORT	0	R696	1-216-049-91	RES-CHIP	1K 5% 1/10W

KP-48PS1/53PS1/61PS1  
48PS1K/53PS1K/61PS1K

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R697	1-216-117-00	RES-CHIP	680K 5% 1/10W	R874	1-216-009-91	RES-CHIP	22 5% 1/10W
R698	1-216-117-00	RES-CHIP	680K 5% 1/10W	R875	1-216-009-91	RES-CHIP	22 5% 1/10W
R699	1-216-295-91	SHORT	0	R876	1-216-009-91	RES-CHIP	22 5% 1/10W
R801	1-216-009-91	RES-CHIP	22 5% 1/10W	R877	1-216-009-91	RES-CHIP	22 5% 1/10W
R802	1-216-009-91	RES-CHIP	22 5% 1/10W	R878	1-216-009-91	RES-CHIP	22 5% 1/10W
R804	1-216-073-00	RES-CHIP	10K 5% 1/10W	R879	1-216-009-91	RES-CHIP	22 5% 1/10W
R806	1-216-675-91	METAL CHIP	10K 0.50% 1/10W	R880	1-216-009-91	RES-CHIP	22 5% 1/10W
R807	1-216-637-11	METAL CHIP	270 0.50% 1/10W	R881	1-216-009-91	RES-CHIP	22 5% 1/10W
R812	1-216-073-00	RES-CHIP	10K 5% 1/10W	R882	1-216-009-91	RES-CHIP	22 5% 1/10W
R813	1-216-295-91	SHORT	0	R883	1-216-009-91	RES-CHIP	22 5% 1/10W
R814	1-216-073-00	RES-CHIP	10K 5% 1/10W	R884	1-216-009-91	RES-CHIP	22 5% 1/10W
R815	1-216-073-00	RES-CHIP	10K 5% 1/10W	R885	1-216-009-91	RES-CHIP	22 5% 1/10W
R816	1-216-073-00	RES-CHIP	10K 5% 1/10W	R886	1-216-009-91	RES-CHIP	22 5% 1/10W
R817	1-216-613-11	METAL CHIP	27 0.50% 1/10W	R887	1-216-009-91	RES-CHIP	22 5% 1/10W
R818	1-216-295-91	SHORT	0	R888	1-216-009-91	RES-CHIP	22 5% 1/10W
R820	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R889	1-216-009-91	RES-CHIP	22 5% 1/10W
R822	1-216-295-91	SHORT	0	R890	1-216-009-91	RES-CHIP	22 5% 1/10W
R823	1-216-073-00	RES-CHIP	10K 5% 1/10W	R891	1-216-009-91	RES-CHIP	22 5% 1/10W
R824	1-216-073-00	RES-CHIP	10K 5% 1/10W	R892	1-216-009-91	RES-CHIP	22 5% 1/10W
R825	1-216-621-11	METAL CHIP	56 0.50% 1/10W	R893	1-216-009-91	RES-CHIP	22 5% 1/10W
R826	1-216-641-11	METAL CHIP	390 0.50% 1/10W	R894	1-216-009-91	RES-CHIP	22 5% 1/10W
R827	1-216-607-11	METAL CHIP	15 0.50% 1/10W	R895	1-216-009-91	RES-CHIP	22 5% 1/10W
R834	1-216-629-11	METAL CHIP	120 0.50% 1/10W	R896	1-216-009-91	RES-CHIP	22 5% 1/10W
R835	1-216-623-11	METAL CHIP	68 0.50% 1/10W	R897	1-216-009-91	RES-CHIP	22 5% 1/10W
R836	1-216-611-11	METAL CHIP	22 0.50% 1/10W	R898	1-216-009-91	RES-CHIP	22 5% 1/10W
R840	1-216-295-91	SHORT	0	R901	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R844	1-216-009-91	RES-CHIP	22 5% 1/10W	R902	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
R845	1-216-009-91	RES-CHIP	22 5% 1/10W	R903	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W
R846	1-216-009-91	RES-CHIP	22 5% 1/10W	R904	1-216-635-11	METAL CHIP	220 0.50% 1/10W
R847	1-216-009-91	RES-CHIP	22 5% 1/10W	R905	1-216-635-11	METAL CHIP	220 0.50% 1/10W
R848	1-216-009-91	RES-CHIP	22 5% 1/10W	R906	1-216-635-11	METAL CHIP	220 0.50% 1/10W
R849	1-216-009-91	RES-CHIP	22 5% 1/10W	R907	1-216-635-11	METAL CHIP	220 0.50% 1/10W
R850	1-216-009-91	RES-CHIP	22 5% 1/10W	R908	1-216-635-11	METAL CHIP	220 0.50% 1/10W
R851	1-216-009-91	RES-CHIP	22 5% 1/10W	R909	1-216-635-11	METAL CHIP	220 0.50% 1/10W
R852	1-216-009-91	RES-CHIP	22 5% 1/10W	R910	1-216-049-91	RES-CHIP	1K 5% 1/10W
R853	1-216-009-91	RES-CHIP	22 5% 1/10W	R911	1-216-049-91	RES-CHIP	1K 5% 1/10W
R854	1-216-009-91	RES-CHIP	22 5% 1/10W	R912	1-216-049-91	RES-CHIP	1K 5% 1/10W
R855	1-216-009-91	RES-CHIP	22 5% 1/10W	R914	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R856	1-216-009-91	RES-CHIP	22 5% 1/10W	R916	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R857	1-216-009-91	RES-CHIP	22 5% 1/10W	R917	1-216-295-91	SHORT	0
R858	1-216-009-91	RES-CHIP	22 5% 1/10W	R919	1-216-295-91	SHORT	0
R859	1-216-009-91	RES-CHIP	22 5% 1/10W	R939	1-216-295-91	SHORT	0
R860	1-216-009-91	RES-CHIP	22 5% 1/10W	R940	1-216-295-91	SHORT	0
R861	1-216-009-91	RES-CHIP	22 5% 1/10W	R941	1-216-295-91	SHORT	0
R862	1-216-009-91	RES-CHIP	22 5% 1/10W	R942	1-216-037-00	RES-CHIP	330 5% 1/10W
R863	1-216-009-91	RES-CHIP	22 5% 1/10W	R943	1-216-033-00	RES-CHIP	220 5% 1/10W
R864	1-216-009-91	RES-CHIP	22 5% 1/10W	R951	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R865	1-216-009-91	RES-CHIP	22 5% 1/10W	R952	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R866	1-216-009-91	RES-CHIP	22 5% 1/10W	R956	1-216-089-91	RES-CHIP	47K 5% 1/10W
R867	1-216-009-91	RES-CHIP	22 5% 1/10W	R957	1-216-635-11	METAL CHIP	220 0.50% 1/10W
R868	1-216-009-91	RES-CHIP	22 5% 1/10W	R958	1-216-635-11	METAL CHIP	220 0.50% 1/10W
R869	1-216-009-91	RES-CHIP	22 5% 1/10W	R959	1-216-635-11	METAL CHIP	220 0.50% 1/10W
R870	1-216-009-91	RES-CHIP	22 5% 1/10W	R960	1-216-635-11	METAL CHIP	220 0.50% 1/10W
R871	1-216-009-91	RES-CHIP	22 5% 1/10W	R961	1-216-635-11	METAL CHIP	220 0.50% 1/10W
R872	1-216-009-91	RES-CHIP	22 5% 1/10W	R962	1-216-635-11	METAL CHIP	220 0.50% 1/10W
R873	1-216-009-91	RES-CHIP	22 5% 1/10W	R979	1-216-295-91	SHORT	0



KP-48PS1/53PS1/61PS1  
48PS1K/53PS1K/61PS1K



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C1405	1-104-664-11	ELECT	47μF 20% 16V	CN1666	1-695-915-11	TAB (CONTACT)	
C1409	1-136-165-00	MYLAR	0.1μF 5% 50V	CN1801	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P	
C1410	1-163-038-91	CERAMIC CHIP	0.1μF 25V	CN1901	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C1411	1-126-933-11	ELECT	100μF 20% 16V	<COMPOSITION CIRCUIT BLOCK>			
C1412	1-163-038-91	CERAMIC CHIP	0.1μF 25V				
C1413	1-126-967-11	ELECT	47μF 20% 50V	CP1301	1-251-658-11	SPLITTER RF	
C1414	1-126-967-11	ELECT	47μF 20% 50V	<DIODE>			
C1415	1-126-967-11	ELECT	47μF 20% 50V	D1101	8-719-988-61	DIODE 1SS355TE-17	
C1416	1-126-967-11	ELECT	47μF 20% 50V	D1102	8-719-988-61	DIODE 1SS355TE-17	
C1417	1-126-967-11	ELECT	47μF 20% 50V	D1103	8-719-988-61	DIODE 1SS355TE-17	
C1418	1-126-967-11	ELECT	47μF 20% 50V	D1104	8-719-988-61	DIODE 1SS355TE-17	
C1419	1-164-222-11	CERAMIC CHIP	0.22μF 25V	D1105	8-719-914-43	DIODE DAN202K	
C1420	1-164-222-11	CERAMIC CHIP	0.22μF 25V	D1106	8-719-914-43	DIODE DAN202K	
C1421	1-164-222-11	CERAMIC CHIP	0.22μF 25V	D1107	8-719-402-92	DIODE MA3220M-TX	
C1422	1-164-222-11	CERAMIC CHIP	0.22μF 25V	D1108	8-719-988-61	DIODE 1SS355TE-17	
C1423	1-164-222-11	CERAMIC CHIP	0.22μF 25V	D1109	8-719-988-61	DIODE 1SS355TE-17	
C1424	1-163-038-91	CERAMIC CHIP	0.1μF 25V	D1110	8-719-402-92	DIODE MA3220M-TX	
C1426	1-163-038-91	CERAMIC CHIP	0.1μF 25V	D1111	8-719-402-92	DIODE MA3220M-TX	
C1427	1-163-239-11	CERAMIC CHIP	33pF 5% 50V	D1112	8-719-402-92	DIODE MA3220M-TX	
C1428	1-163-239-11	CERAMIC CHIP	33pF 5% 50V	D1201	8-719-914-43	DIODE DAN202K	
C1429	1-163-239-11	CERAMIC CHIP	33pF 5% 50V	D1202	8-719-914-43	DIODE DAN202K	
C1430	1-164-346-11	CERAMIC CHIP	1μF 16V	D1203	8-719-988-61	DIODE 1SS355TE-17	
C1601	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	D1204	8-719-914-43	DIODE DAN202K	
C1602	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	D1205	8-719-988-61	DIODE 1SS355TE-17	
C1603	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	D1206	8-719-991-33	DIODE 1SS133T-77	
C1604	1-126-933-11	ELECT	100μF 20% 16V	D1401	8-719-056-82	DIODE UDZ-TE-17-6.2B	
C1605	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	D1402	8-719-056-82	DIODE UDZ-TE-17-6.2B	
C1606	1-126-933-11	ELECT	100μF 20% 16V	D1403	8-719-056-82	DIODE UDZ-TE-17-6.2B	
C1607	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	D1404	8-719-056-82	DIODE UDZ-TE-17-6.2B	
C1608	1-126-933-11	ELECT	100μF 20% 16V	D1405	8-719-056-83	DIODE UDZ-TE-17-6.8B	
C1610	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	D1406	8-719-914-43	DIODE DAN202K	
C1611	1-126-916-11	ELECT	1000μF 20% 6.3V	D1410	8-719-402-92	DIODE MA3220M-TX	
C1612	1-126-925-11	ELECT	470μF 20% 10V	D1411	8-719-402-92	DIODE MA3220M-TX	
C1615	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	D1421	8-719-422-12	DIODE MA8039	
C1616	1-126-916-11	ELECT	1000μF 20% 6.3V	<FILTER>			
C1617	1-126-925-11	ELECT	470μF 20% 10V				
C1619	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	FL1401	1-236-071-11	ENCAPSULATED COMPONENT	
<CONNECTOR>				<IC>			
CN1001	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P		IC1101	8-759-190-89	IC TDA7265	
CN1102 *	1-564-507-11	PLUG, CONNECTOR 4P		IC1401	8-752-072-94	IC CXA1875AM-T4	
CN1201	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P		IC1402	8-752-067-36	IC CXA1815S	
CN1301 *	1-564-508-11	PLUG, CONNECTOR 5P		IC1601	8-759-069-28	IC PQ05RF11	
CN1302 *	1-764-333-11	PLUG, CONNECTOR 10P		IC1602	8-759-054-12	IC PQ09RA1	
CN1404	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P		IC1603	8-759-520-49	IC PQ30RV21	
CN1501	1-785-802-11	PIN, CONNECTOR (WITH PWB) 20P		IC1604	8-759-520-49	IC PQ30RV21	
CN1502	1-785-802-11	PIN, CONNECTOR (WITH PWB) 20P		IC1605	8-759-069-28	IC PQ05RF11	
CN1503 *	1-564-511-11	PLUG, CONNECTOR 8P		<CHIP CONDUCTOR>			
CN1504 *	1-564-508-11	PLUG, CONNECTOR 5P		JR1001	1-216-295-91	SHORT	0
CN1603 *	1-764-333-11	PLUG, CONNECTOR 10P					
CN1605	1-508-765-00	PIN, CONNECTOR (5MM PITCH)	3P				
CN1606 *	1-564-508-11	PLUG, CONNECTOR 5P					
CN1661	1-695-915-11	TAB (CONTACT)					
CN1665	1-695-915-11	TAB (CONTACT)					

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**KP-48PS1/53PS1/61PS1**  
**48PS1K/53PS1K/61PS1K**



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The components identified by shading  
 and mark  $\Delta$  are critical for safety.  
 Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1234	1-216-295-91	SHORT	0	R1428	1-208-822-11	METAL CHIP 47K	0.50% 1/10W
R1301	1-216-041-00	RES-CHIP	470 5% 1/10W	R1429	1-208-798-11	METAL CHIP 4.7K	0.50% 1/10W
R1303	1-216-025-91	RES-CHIP	100 5% 1/10W	R1430	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
R1304	1-216-025-91	RES-CHIP	100 5% 1/10W	R1431	1-216-017-91	RES-CHIP 47	5% 1/10W
R1305	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1432	1-216-041-00	RES-CHIP 470	5% 1/10W
R1306	1-216-025-91	RES-CHIP	100 5% 1/10W	R1442	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R1307	1-216-041-00	RES-CHIP	470 5% 1/10W	R1443	1-216-049-91	RES-CHIP 1K	5% 1/10W
R1308	1-216-075-00	RES-CHIP	12K 5% 1/10W	R1444	1-216-025-91	RES-CHIP 100	5% 1/10W
R1309	1-216-041-00	RES-CHIP	470 5% 1/10W	R1445	1-216-049-91	RES-CHIP 1K	5% 1/10W
R1310	1-216-041-00	RES-CHIP	470 5% 1/10W	R1446	1-216-025-91	RES-CHIP 100	5% 1/10W
R1311	1-216-001-00	RES-CHIP	10 5% 1/10W	R1447	1-216-025-91	RES-CHIP 100	5% 1/10W
R1312	1-216-025-91	RES-CHIP	100 5% 1/10W	R1448	1-216-025-91	RES-CHIP 100	5% 1/10W
R1313	1-216-069-00	RES-CHIP	6.8K 5% 1/10W	R1449	1-216-025-91	RES-CHIP 100	5% 1/10W
R1314	1-216-041-00	RES-CHIP	470 5% 1/10W	R1450	1-216-017-91	RES-CHIP 47	5% 1/10W
R1315	1-216-041-00	RES-CHIP	470 5% 1/10W	R1451	1-216-017-91	RES-CHIP 47	5% 1/10W
R1317	1-216-041-00	RES-CHIP	470 5% 1/10W	R1452	1-216-295-91	SHORT	0
R1318	1-216-043-91	RES-CHIP	560 5% 1/10W	R1453	1-216-295-91	SHORT	0
R1319	1-216-025-91	RES-CHIP	100 5% 1/10W	R1454	1-216-081-00	RES-CHIP 22K	5% 1/10W
R1320	1-216-041-00	RES-CHIP	470 5% 1/10W	R1456	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R1321	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1457	1-216-025-91	RES-CHIP 100	5% 1/10W
R1322	1-216-025-91	RES-CHIP	100 5% 1/10W	R1458	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R1323	1-216-025-91	RES-CHIP	100 5% 1/10W	R1459	1-216-025-91	RES-CHIP 100	5% 1/10W
R1324	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1460	1-216-049-91	RES-CHIP 1K	5% 1/10W
R1325	1-216-041-00	RES-CHIP	470 5% 1/10W	R1461	1-216-073-00	RES-CHIP 10K	5% 1/10W
R1326	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1462	1-216-073-00	RES-CHIP 10K	5% 1/10W
R1327	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1463	1-216-017-91	RES-CHIP 47	5% 1/10W
R1328	1-216-081-00	RES-CHIP	22K 5% 1/10W	R1464	1-216-049-91	RES-CHIP 1K	5% 1/10W
R1329	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R1465	1-216-017-91	RES-CHIP 47	5% 1/10W
R1330	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R1466	1-216-049-91	RES-CHIP 1K	5% 1/10W
R1331	1-216-043-91	RES-CHIP	560 5% 1/10W	R1467	1-216-017-91	RES-CHIP 47	5% 1/10W
R1332	1-216-295-91	SHORT	0	R1468	1-216-041-00	RES-CHIP 470	5% 1/10W
R1333	1-216-295-91	SHORT	0	R1469	1-216-358-11	METAL OXIDE 5.6	5% 1W
R1401	1-216-029-00	RES-CHIP	150 5% 1/10W	R1608	1-208-778-11	METAL CHIP 680	0.50% 1/10W
R1402	1-216-039-00	RES-CHIP	390 5% 1/10W	R1610	1-208-772-11	METAL CHIP 390	0.50% 1/10W
R1403	1-216-049-91	RES-CHIP	1K 5% 1/10W	R1611	1-208-772-11	METAL CHIP 390	0.50% 1/10W
R1404	1-216-025-91	RES-CHIP	100 5% 1/10W	R1612	1-216-025-91	RES-CHIP 100	5% 1/10W
R1405	1-216-025-91	RES-CHIP	100 5% 1/10W	R1613	1-208-772-11	METAL CHIP 390	0.50% 1/10W
R1406	1-216-073-00	RES-CHIP	10K 5% 1/10W	R1614	1-216-073-00	RES-CHIP 10K	5% 1/10W
R1407	1-216-025-91	RES-CHIP	100 5% 1/10W	<RELAY>			
R1408	1-216-025-91	RES-CHIP	100 5% 1/10W	RY1101	1-755-028-11	RELAY	
R1409	1-216-025-91	RES-CHIP	100 5% 1/10W	RY1102	1-755-028-11	RELAY	
R1410	1-216-073-00	RES-CHIP	10K 5% 1/10W	<TUNER>			
R1411	1-216-025-91	RES-CHIP	100 5% 1/10W	TU1301 $\Delta$ 1-693-340-23 TUNER/VIF			
R1412	1-216-025-91	RES-CHIP	100 5% 1/10W	TU1302 $\Delta$ 1-693-340-23 TUNER/VIF			
R1413	1-216-073-00	RES-CHIP	10K 5% 1/10W	*****			
R1414	1-216-025-91	RES-CHIP	100 5% 1/10W	* A-1306-585-A M BOARD, COMPLETE			
R1416	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	*****			
R1417	1-216-017-91	RES-CHIP	47 5% 1/10W	<CAPACITOR>			
R1418	1-216-041-00	RES-CHIP	470 5% 1/10W	C9100	1-115-340-11	CERAMIC CHIP 0.22 $\mu$ F	10% 25V
R1420	1-216-089-91	RES-CHIP	47K 5% 1/10W	C9101	1-163-251-11	CERAMIC CHIP 100pF	5% 50V
R1422	1-216-049-91	RES-CHIP	1K 5% 1/10W				
R1423	1-216-057-00	RES-CHIP	2.2K 5% 1/10W				
R1424	1-216-017-91	RES-CHIP	47 5% 1/10W				
R1425	1-216-041-00	RES-CHIP	470 5% 1/10W				
R1426	1-216-093-91	RES-CHIP	68K 5% 1/10W				
R1427	1-216-089-91	RES-CHIP	47K 5% 1/10W				

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C9102	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	<DIODE>			
C9104	1-126-933-11	ELECT	100μF 20% 16V	D9100	8-719-988-61	DIODE 1SS355TE-17	
C9105	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	D9101	8-719-988-61	DIODE 1SS355TE-17	
C9106	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	D9102	8-719-988-61	DIODE 1SS355TE-17	
C9107	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	D9103	8-719-988-61	DIODE 1SS355TE-17	
C9108	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	D9104	8-719-056-83	DIODE UDZ-TE-17-6.8B	
C9110	1-110-501-11	CERAMIC CHIP	0.33μF 10% 16V	D9105	8-719-988-61	DIODE 1SS355TE-17	
C9111	1-164-344-11	CERAMIC CHIP	0.068μF 10% 25V	D9107	8-719-025-31	DIODE 02CZ5.6-TE85L	
C9112	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	D9108	8-719-914-44	DIODE DAP202K	
C9113	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	D9109	8-719-105-91	DIODE RD5.6M-B2	
C9114	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	D9110	8-719-914-43	DIODE DAN202K	
C9115	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V	D9111	8-719-105-91	DIODE RD5.6M-B2	
C9116	1-110-501-11	CERAMIC CHIP	0.33μF 10% 16V	<FILTER>			
C9117	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	FL9101	1-236-071-11	ENCAPSULATED COMPONENT	
C9118	1-104-664-11	ELECT	47μF 20% 16V	FL9500	1-236-071-11	ENCAPSULATED COMPONENT	
C9119	1-163-259-91	CERAMIC CHIP	220pF 5% 50V	FL9501	1-236-071-11	ENCAPSULATED COMPONENT	
C9121	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	<IC>			
C9122	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V	IC9100	8-759-988-13	IC LM393PS	
C9123	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	IC9103	8-759-488-29	IC TC7W66FU(TE12R)	
C9124	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	IC9104	8-759-259-18	IC MB3793-42PNF	
C9125	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	IC9105	8-759-544-30	IC SAB-C161R1-LM	
C9126	1-163-239-11	CERAMIC CHIP	33pF 5% 50V	IC9108	8-759-564-06	IC M24C32-MN6T	
C9127	1-163-239-11	CERAMIC CHIP	33pF 5% 50V	IC9109	8-759-678-20	IC M27C800-100K1RE101	
C9128	1-163-239-11	CERAMIC CHIP	33pF 5% 50V	IC9110	8-759-009-22	IC MC14094BF	
C9129	1-163-239-11	CERAMIC CHIP	33pF 5% 50V	IC9111	8-759-242-72	IC TC7W00F(TE12R)	
C9130	1-163-239-11	CERAMIC CHIP	33pF 5% 50V	IC9112	8-759-523-02	IC TC74HC4053AFT(EL)	
C9131	1-163-239-11	CERAMIC CHIP	33pF 5% 50V	IC9400	8-759-481-78	IC M29F040-120N1	
C9132	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	IC9500	8-759-243-62	IC TC74AC32F	
C9133	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	IC9501	8-759-665-44	IC GM71C17400CT-6	
C9134	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	IC9502	8-759-665-84	IC SDA5275-3PC02-22	
C9135	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V	<COIL>			
C9400	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V	L9400	1-412-029-11	INDUCTOR CHIP	10μH
C9501	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	L9401	1-412-029-11	INDUCTOR CHIP	10μH
C9503	1-126-964-11	ELECT	10μF 20% 50V	<TRANSISTOR>			
C9504	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	Q9100	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C9505	1-126-933-11	ELECT	100μF 20% 16V	Q9101	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C9506	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	Q9102	8-729-216-22	TRANSISTOR 2SA1162-G	
C9507	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V	Q9103	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C9508	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V	Q9104	8-729-216-22	TRANSISTOR 2SA1162-G	
C9509	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	Q9105	8-729-216-22	TRANSISTOR 2SA1162-G	
C9510	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V	Q9106	8-729-216-22	TRANSISTOR 2SA1162-G	
C9511	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	Q9110	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C9512	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	Q9500	8-729-216-22	TRANSISTOR 2SA1162-G	
C9513	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	Q9501	8-729-216-22	TRANSISTOR 2SA1162-G	
C9514	1-163-235-11	CERAMIC CHIP	22pF 5% 50V	Q9502	8-729-216-22	TRANSISTOR 2SA1162-G	
C9515	1-163-235-11	CERAMIC CHIP	22pF 5% 50V	Q9503	1-801-806-11	TRANSISTOR DTC144EKA	
C9516	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	Q9504	1-801-806-11	TRANSISTOR DTC144EKA	
C9517	1-163-009-11	CERAMIC CHIP	0.001μF 10% 50V	<CONNECTOR>			
C9518	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V				
C9519	1-126-964-11	ELECT	10μF 20% 50V				
<CONNECTOR>							
CN9001	1-695-302-11	CONNECTOR, BOARD TO BOARD	50P				

**M**

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REF.NO.	PART NO.	DESCRIPTION	REMARK			REF.NO.	PART NO.	DESCRIPTION	REMARK		
	<RESISTOR>					R9176	1-216-025-91	RES-CHIP	100	5%	1/10W
R9100	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9177	1-216-025-91	RES-CHIP	100	5%	1/10W
R9101	1-216-033-00	RES-CHIP	220	5%	1/10W	R9178	1-216-025-91	RES-CHIP	100	5%	1/10W
R9102	1-216-033-00	RES-CHIP	220	5%	1/10W	R9184	1-216-025-91	RES-CHIP	100	5%	1/10W
R9103	1-216-025-91	RES-CHIP	100	5%	1/10W	R9185	1-216-025-91	RES-CHIP	100	5%	1/10W
R9104	1-216-073-00	RES-CHIP	10K	5%	1/10W						
						R9186	1-216-025-91	RES-CHIP	100	5%	1/10W
R9105	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9187	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R9107	1-216-025-91	RES-CHIP	100	5%	1/10W	R9188	1-216-025-91	RES-CHIP	100	5%	1/10W
R9108	1-216-025-91	RES-CHIP	100	5%	1/10W	R9189	1-216-025-91	RES-CHIP	100	5%	1/10W
R9109	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9191	1-216-025-91	RES-CHIP	100	5%	1/10W
R9110	1-216-081-00	RES-CHIP	22K	5%	1/10W						
						R9192	1-216-025-91	RES-CHIP	100	5%	1/10W
R9111	1-216-025-91	RES-CHIP	100	5%	1/10W	R9193	1-216-097-91	RES-CHIP	100K	5%	1/10W
R9112	1-216-025-91	RES-CHIP	100	5%	1/10W	R9194	1-216-097-91	RES-CHIP	100K	5%	1/10W
R9113	1-216-033-00	RES-CHIP	220	5%	1/10W	R9195	1-216-097-91	RES-CHIP	100K	5%	1/10W
R9114	1-216-083-00	RES-CHIP	27K	5%	1/10W	R9196	1-216-081-00	RES-CHIP	22K	5%	1/10W
R9115	1-216-081-00	RES-CHIP	22K	5%	1/10W						
						R9197	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9116	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9198	1-216-039-00	RES-CHIP	390	5%	1/10W
R9117	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9199	1-216-039-00	RES-CHIP	390	5%	1/10W
R9119	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9200	1-216-017-91	RES-CHIP	47	5%	1/10W
R9120	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9201	1-216-039-00	RES-CHIP	390	5%	1/10W
R9121	1-216-017-91	RES-CHIP	47	5%	1/10W						
						R9202	1-216-017-91	RES-CHIP	47	5%	1/10W
R9122	1-216-049-91	RES-CHIP	1K	5%	1/10W	R9203	1-216-017-91	RES-CHIP	47	5%	1/10W
R9123	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9501	1-216-017-91	RES-CHIP	47	5%	1/10W
R9124	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9502	1-216-295-91	SHORT	0		
R9127	1-216-049-91	RES-CHIP	1K	5%	1/10W	R9504	1-216-041-00	RES-CHIP	470	5%	1/10W
R9129	1-216-025-91	RES-CHIP	100	5%	1/10W						
						R9505	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R9131	1-216-025-91	RES-CHIP	100	5%	1/10W	R9506	1-216-073-00	RES-CHIP	10K	5%	1/10W
R9132	1-216-017-91	RES-CHIP	47	5%	1/10W	R9507	1-216-097-91	RES-CHIP	100K	5%	1/10W
R9133	1-216-017-91	RES-CHIP	47	5%	1/10W	R9509	1-216-049-91	RES-CHIP	1K	5%	1/10W
R9134	1-216-025-91	RES-CHIP	100	5%	1/10W	R9510	1-216-017-91	RES-CHIP	47	5%	1/10W
R9135	1-216-025-91	RES-CHIP	100	5%	1/10W						
						R9511	1-216-049-91	RES-CHIP	1K	5%	1/10W
R9136	1-216-025-91	RES-CHIP	100	5%	1/10W	R9512	1-216-017-91	RES-CHIP	47	5%	1/10W
R9138	1-216-049-91	RES-CHIP	1K	5%	1/10W	R9513	1-216-017-91	RES-CHIP	47	5%	1/10W
R9140	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R9514	1-216-017-91	RES-CHIP	47	5%	1/10W
R9141	1-216-049-91	RES-CHIP	1K	5%	1/10W	R9515	1-216-295-91	SHORT	0		
R9142	1-216-041-00	RES-CHIP	470	5%	1/10W						
						R9516	1-216-295-91	SHORT	0		
R9143	1-216-049-91	RES-CHIP	1K	5%	1/10W	R9517	1-216-295-91	SHORT	0		
R9144	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R9518	1-216-049-91	RES-CHIP	1K	5%	1/10W
R9145	1-216-049-91	RES-CHIP	1K	5%	1/10W	R9519	1-216-039-00	RES-CHIP	390	5%	1/10W
R9146	1-216-049-91	RES-CHIP	1K	5%	1/10W	R9520	1-216-039-00	RES-CHIP	390	5%	1/10W
R9147	1-216-049-91	RES-CHIP	1K	5%	1/10W						
						R9521	1-216-039-00	RES-CHIP	390	5%	1/10W
R9149	1-216-025-91	RES-CHIP	100	5%	1/10W	R9522	1-216-295-91	SHORT	0		
R9150	1-216-025-91	RES-CHIP	100	5%	1/10W	R9523	1-216-295-91	SHORT	0		
R9151	1-216-025-91	RES-CHIP	100	5%	1/10W	R9524	1-216-295-91	SHORT	0		
R9153	1-216-025-91	RES-CHIP	100	5%	1/10W	R9525	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R9159	1-216-069-00	RES-CHIP	6.8K	5%	1/10W						
						R9526	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R9161	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	R9527	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R9162	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	R9528	1-216-025-91	RES-CHIP	100	5%	1/10W
R9164	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	R9529	1-216-025-91	RES-CHIP	100	5%	1/10W
R9166	1-216-073-00	RES-CHIP	10K	5%	1/10W	R9530	1-216-025-91	RES-CHIP	100	5%	1/10W
R9168	1-216-069-00	RES-CHIP	6.8K	5%	1/10W						
						<NETWORK RESISTOR>					
R9169	1-216-069-00	RES-CHIP	6.8K	5%	1/10W						
R9172	1-216-069-00	RES-CHIP	6.8K	5%	1/10W	RB9101	1-239-412-11 NETWORK RESISTOR (CHIP) 100				
R9173	1-216-295-91	SHORT	0								
R9174	1-216-025-91	RES-CHIP	100	5%	1/10W						
R9175	1-216-025-91	RES-CHIP	100	5%	1/10W						

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<CRYSTAL>				C4371	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
X9101	1-781-107-21	VIBRATOR, SERAMIC (16MHz)		C4372	1-164-505-11	CERAMIC CHIP 2.2μF	16V
X9500	1-760-551-21	VIBRATOR, CERAMIC (20.480MHz)		C4373	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
*****				C4374	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
* A-1346-906-A E BOARD, COMPLETE				C4377	1-126-960-11	ELECT 1μF	20% 50V
*****				C4382	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
<CAPACITOR>				C4383	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C4304	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	C4384	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
C4306	1-126-964-11	ELECT 10μF	20% 50V	C4601	1-164-161-11	CERAMIC CHIP 0.0022μF	10% 50V
C4307	1-163-137-00	CERAMIC CHIP 680pF	5% 50V	<CONNECTOR>			
C4311	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	CN4101	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	
C4312	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	CN4500 *	1-564-512-11	PLUG, CONNECTOR 9P	
C4313	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	CN4502 *	1-564-507-11	PLUG, CONNECTOR 4P	
C4316	1-104-664-11	ELECT 47μF	20% 25V	<DIODE>			
C4317	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	D4304	8-719-977-22	DIODE DTZ9.1	
C4318	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	D4305	8-719-977-22	DIODE DTZ9.1	
C4319	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	D4601	8-719-401-63	DIODE MA3062M-TX	
C4324	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	D4602	8-719-914-43	DIODE DAN202K	
C4325	1-163-093-00	CERAMIC CHIP 10pF	5% 50V	D4603	8-719-914-43	DIODE DAN202K	
C4329	1-126-963-11	ELECT 4.7μF	20% 50V	<FERRITE BEAD>			
C4330	1-137-581-11	FILM 0.1μF	5% 100V	FB4387	1-216-295-91	SHORT 0	
C4331	1-126-959-11	ELECT 0.47μF	20% 50V	FB4388	1-216-295-91	SHORT 0	
C4332	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	FB4389	1-216-295-91	SHORT 0	
C4333	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	<IC>			
C4334	1-126-967-11	ELECT 47μF	20% 50V	IC4301	8-752-090-88	IC CXA2100AQ-TL	
C4336	1-126-967-11	ELECT 47μF	20% 50V	<CHIP CONDUCTOR>			
C4338	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	JR4301	1-216-295-91	SHORT 0	
C4340	1-126-967-11	ELECT 47μF	20% 50V	JR4302	1-216-037-00	RES-CHIP 330 5% 1/10W	
C4342	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V	<COIL>			
C4343	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	L4301	1-412-029-11	INDUCTOR CHIP 10μH	
C4344	1-126-960-11	ELECT 1μF	20% 50V	L4302	1-412-029-11	INDUCTOR CHIP 10μH	
C4345	1-126-967-11	ELECT 47μF	20% 50V	L4303	1-412-029-11	INDUCTOR CHIP 10μH	
C4346	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	L4304	1-412-029-11	INDUCTOR CHIP 10μH	
C4347	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	L4305	1-412-029-11	INDUCTOR CHIP 10μH	
C4348	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	L4306	1-412-029-11	INDUCTOR CHIP 10μH	
C4349	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	L4308	1-412-031-11	INDUCTOR CHIP 47μH	
C4350	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	L4309	1-412-031-11	INDUCTOR CHIP 47μH	
C4351	1-164-161-11	CERAMIC CHIP 0.0022μF	10% 50V	<TRANSISTOR>			
C4352	1-126-967-11	ELECT 47μF	20% 50V	Q4301	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C4353	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V	Q4302	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C4354	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V	Q4303	8-729-216-22	TRANSISTOR 2SA1162-G	
C4355	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	Q4304	8-729-216-22	TRANSISTOR 2SA1162-G	
C4356	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	Q4307	8-729-216-22	TRANSISTOR 2SA1162-G	
C4357	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V				
C4358	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V				
C4359	1-164-161-11	CERAMIC CHIP 0.0022μF	10% 50V				
C4360	1-126-966-11	ELECT 33μF	20% 50V				
C4362	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V				
C4363	1-126-967-11	ELECT 47μF	20% 50V				
C4364	1-126-967-11	ELECT 47μF	20% 50V				
C4368	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V				
C4369	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V				
C4370	1-126-967-11	ELECT 47μF	20% 50V				

**KP-48PS1/53PS1/61PS1**  
**48PS1K/53PS1K/61PS1K**



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q4308	8-729-216-22	TRANSISTOR 2SA1162-G		R4363	1-216-025-91	RES-CHIP 100 5%	1/10W
Q4310	8-729-216-22	TRANSISTOR 2SA1162-G					
Q4316	8-729-216-22	TRANSISTOR 2SA1162-G		R4365	1-216-017-91	RES-CHIP 47 5%	1/10W
Q4317	8-729-216-22	TRANSISTOR 2SA1162-G		R4366	1-216-017-91	RES-CHIP 47 5%	1/10W
Q4318	8-729-216-22	TRANSISTOR 2SA1162-G		R4367	1-216-017-91	RES-CHIP 47 5%	1/10W
				R4370	1-216-049-91	RES-CHIP 1K 5%	1/10W
Q4320	8-729-216-22	TRANSISTOR 2SA1162-G		R4372	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
Q4321	8-729-216-22	TRANSISTOR 2SA1162-G					
Q4322	8-729-216-22	TRANSISTOR 2SA1162-G		R4375	1-216-033-00	RES-CHIP 220 5%	1/10W
Q4601	1-801-806-11	TRANSISTOR DTC144EKA		R4377	1-216-033-00	RES-CHIP 220 5%	1/10W
Q4602	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R4378	1-216-101-00	RES-CHIP 150K 5%	1/10W
				R4380	1-216-073-00	RES-CHIP 10K 5%	1/10W
				R4382	1-216-073-00	RES-CHIP 10K 5%	1/10W
<RESISTOR>							
R4301	1-216-025-91	RES-CHIP 100 5%	1/10W	R4384	1-216-025-91	RES-CHIP 100 5%	1/10W
R4302	1-216-025-91	RES-CHIP 100 5%	1/10W	R4385	1-216-129-00	RES-CHIP 2.2M 5%	1/10W
R4303	1-216-025-91	RES-CHIP 100 5%	1/10W	R4387	1-216-017-91	RES-CHIP 47 5%	1/10W
R4304	1-216-025-91	RES-CHIP 100 5%	1/10W	R4388	1-216-017-91	RES-CHIP 47 5%	1/10W
R4305	1-216-025-91	RES-CHIP 100 5%	1/10W	R4389	1-216-017-91	RES-CHIP 47 5%	1/10W
R4306	1-216-025-91	RES-CHIP 100 5%	1/10W	R4393	1-216-025-91	RES-CHIP 100 5%	1/10W
R4307	1-216-295-91	SHORT 0		R4395	1-216-295-91	SHORT 0	
R4309	1-216-295-91	SHORT 0		R4396	1-216-295-91	SHORT 0	
R4313	1-216-039-00	RES-CHIP 390 5%	1/10W	R4398	1-216-025-91	RES-CHIP 100 5%	1/10W
R4314	1-216-049-91	RES-CHIP 1K 5%	1/10W	R4504	1-216-025-91	RES-CHIP 100 5%	1/10W
R4315	1-216-063-91	RES-CHIP 3.9K 5%	1/10W	R4516	1-216-049-91	RES-CHIP 1K 5%	1/10W
R4316	1-216-037-00	RES-CHIP 330 5%	1/10W	R4517	1-216-049-91	RES-CHIP 1K 5%	1/10W
R4317	1-216-047-91	RES-CHIP 820 5%	1/10W	R4518	1-216-025-91	RES-CHIP 100 5%	1/10W
R4318	1-249-411-11	CARBON 330 5%	1/4W	R4519	1-216-025-91	RES-CHIP 100 5%	1/10W
R4319	1-216-073-00	RES-CHIP 10K 5%	1/10W	R4520	1-216-025-91	RES-CHIP 100 5%	1/10W
R4320	1-216-689-11	RES-CHIP 39K 5%	1/10W	R4521	1-216-025-91	RES-CHIP 100 5%	1/10W
R4321	1-216-105-91	RES-CHIP 220K 5%	1/10W	R4522	1-216-025-91	RES-CHIP 100 5%	1/10W
R4322	1-216-073-00	RES-CHIP 10K 5%	1/10W	R4523	1-216-025-91	RES-CHIP 100 5%	1/10W
R4323	1-216-091-00	RES-CHIP 56K 5%	1/10W	R4524	1-216-049-91	RES-CHIP 1K 5%	1/10W
R4324	1-208-830-11	METAL CHIP 100K 0.50%	1/10W	R4602	1-216-057-00	RES-CHIP 2.2K 5%	1/10W
R4332	1-216-025-91	RES-CHIP 100 5%	1/10W	R4603	1-216-065-91	RES-CHIP 4.7K 5%	1/10W
R4334	1-216-025-91	RES-CHIP 100 5%	1/10W				
R4335	1-216-025-91	RES-CHIP 100 5%	1/10W	<CRYSTAL>			
R4336	1-216-025-91	RES-CHIP 100 5%	1/10W				
R4337	1-216-025-91	RES-CHIP 100 5%	1/10W	X4300	1-767-127-11	VIBRATOR, CERAMIC (503.5MHz)	
				*****			
R4339	1-247-815-91	CARBON 220 5%	1/4W				
R4340	1-216-111-00	RES-CHIP 390K 5%	1/10W	* A-1394-969-A S BOARD, COMPLETE			
R4341	1-216-295-91	SHORT 0		*****			
R4343	1-216-025-91	RES-CHIP 100 5%	1/10W				
R4344	1-216-025-91	RES-CHIP 100 5%	1/10W	<CAPACITOR>			
R4345	1-216-075-00	RES-CHIP 12K 5%	1/10W	C4701	1-163-251-11	CERAMIC CHIP 100pF 5%	50V
R4346	1-216-681-11	METAL CHIP 18K 0.50%	1/10W	C4702	1-163-241-11	CERAMIC CHIP 39pF 5%	50V
R4347	1-216-025-91	RES-CHIP 100 5%	1/10W	C4708	1-163-087-00	CERAMIC CHIP 4pF 0.25pF	50V
R4348	1-216-025-91	RES-CHIP 100 5%	1/10W	C4709	1-163-087-00	CERAMIC CHIP 4pF 0.25pF	50V
R4349	1-216-033-00	RES-CHIP 220 5%	1/10W	C4710	1-104-664-11	ELECT 47μF 20%	16V
R4350	1-216-025-91	RES-CHIP 100 5%	1/10W	C4711	1-164-004-11	CERAMIC CHIP 0.1μF 10%	25V
R4352	1-216-073-00	RES-CHIP 10K 5%	1/10W	C4712	1-164-004-11	CERAMIC CHIP 0.1μF 10%	25V
R4354	1-216-675-91	METAL CHIP 10K 0.50%	1/10W	C4713	1-164-004-11	CERAMIC CHIP 0.1μF 10%	25V
R4355	1-216-295-91	SHORT 0		C4714	1-163-243-11	CERAMIC CHIP 47pF 5%	50V
R4357	1-208-814-91	METAL CHIP 22K 0.50%	1/10W	C4715	1-163-243-11	CERAMIC CHIP 47pF 5%	50V
R4358	1-216-673-11	METAL CHIP 8.2K 0.50%	1/10W	C4716	1-163-243-11	CERAMIC CHIP 47pF 5%	50V
R4359	1-216-041-00	RES-CHIP 470 5%	1/10W	C4717	1-110-501-11	CERAMIC CHIP 0.33μF 10%	16V
R4360	1-216-061-00	RES-CHIP 3.3K 5%	1/10W	C4718	1-164-506-11	CERAMIC CHIP 4.7μF	16V
R4361	1-216-133-00	RES-CHIP 3.3M 5%	1/10W				



KP-48PS1/53PS1/61PS1  
48PS1K/53PS1K/61PS1K



RM-892

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R4731	1-216-049-91	RES-CHIP	1K 5% 1/10W	* A-1394-970-A J BOARD, COMPLETE *****			
R4732	1-216-025-91	RES-CHIP	100 5% 1/10W				
R4733	1-216-025-91	RES-CHIP	100 5% 1/10W				
R4734	1-216-067-00	RES-CHIP	5.6K 5% 1/10W				
				<CAPACITOR>			
R4737	1-216-295-91	SHORT	0	C8301	1-163-037-11	CERAMIC CHIP 0.022μF	10% 50V
R4738	1-216-295-91	SHORT	0	C8302	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
R4739	1-216-295-91	SHORT	0	C8305	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
R4740	1-216-295-91	SHORT	0	C8306	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V
R4741	1-216-025-91	RES-CHIP	100 5% 1/10W	C8308	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
R4742	1-216-025-91	RES-CHIP	100 5% 1/10W	C8309	1-126-961-11	ELECT 2.2μF	20% 50V
R4743	1-216-025-91	RES-CHIP	100 5% 1/10W	C8311	1-104-664-11	ELECT 47μF	20% 16V
R4747	1-216-063-91	RES-CHIP	3.9K 5% 1/10W	C8313	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
R4748	1-216-069-00	RES-CHIP	6.8K 5% 1/10W	C8314	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
R4749	1-216-089-91	RES-CHIP	47K 5% 1/10W	C8318	1-104-664-11	ELECT 47μF	20% 16V
R4752	1-216-043-91	RES-CHIP	560 5% 1/10W	C8319	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
R4757	1-216-089-91	RES-CHIP	47K 5% 1/10W	C8321	1-104-664-11	ELECT 47μF	20% 16V
R4758	1-216-089-91	RES-CHIP	47K 5% 1/10W	C8322	1-163-227-11	CERAMIC CHIP 10pF	0.5pF 50V
R4759	1-216-089-91	RES-CHIP	47K 5% 1/10W	C8323	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
R4760	1-216-089-91	RES-CHIP	47K 5% 1/10W	C8324	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
R4761	1-216-089-91	RES-CHIP	47K 5% 1/10W	C8325	1-126-964-11	ELECT 10μF	20% 50V
R4769	1-216-025-91	RES-CHIP	100 5% 1/10W	C8327	1-107-682-11	CERAMIC CHIP 1μF	10% 16V
R4773	1-216-295-91	SHORT	0	C8329	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
R4777	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	C8331	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
R4778	1-216-049-91	RES-CHIP	1K 5% 1/10W	C8335	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
R4779	1-216-069-00	RES-CHIP	6.8K 5% 1/10W	C8336	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
R4780	1-216-295-91	SHORT	0	C8337	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
R4781	1-216-035-00	RES-CHIP	270 5% 1/10W	C8338	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
R4782	1-216-081-00	RES-CHIP	22K 5% 1/10W	C8345	1-107-682-11	CERAMIC CHIP 1μF	10% 16V
R4783	1-216-081-00	RES-CHIP	22K 5% 1/10W	C8346	1-126-963-11	ELECT 4.7μF	20% 50V
R4784	1-216-081-00	RES-CHIP	22K 5% 1/10W	C8347	1-115-340-11	CERAMIC CHIP 0.22μF	10% 25V
R4785	1-216-295-91	SHORT	0	C8348	1-115-340-11	CERAMIC CHIP 0.22μF	10% 25V
R4786	1-216-043-91	RES-CHIP	560 5% 1/10W	C8349	1-104-664-11	ELECT 47μF	20% 16V
R4787	1-216-043-91	RES-CHIP	560 5% 1/10W	C8350	1-115-340-11	CERAMIC CHIP 0.22μF	10% 25V
R4788	1-216-043-91	RES-CHIP	560 5% 1/10W	C8351	1-115-340-11	CERAMIC CHIP 0.22μF	10% 25V
R4789	1-216-067-00	RES-CHIP	5.6K 5% 1/10W	C8352	1-104-664-11	ELECT 47μF	20% 16V
R4790	1-216-067-00	RES-CHIP	5.6K 5% 1/10W	C8353	1-164-346-11	CERAMIC CHIP 1μF	16V
R4791	1-216-067-00	RES-CHIP	5.6K 5% 1/10W	C8354	1-164-346-11	CERAMIC CHIP 1μF	16V
R4792	1-216-025-91	RES-CHIP	100 5% 1/10W	C8355	1-126-935-11	ELECT 470μF	20% 16V
R4793	1-216-025-91	RES-CHIP	100 5% 1/10W	C8356	1-126-933-11	ELECT 100μF	20% 16V
R4794	1-216-295-91	SHORT	0	C8357	1-126-933-11	ELECT 100μF	20% 16V
R4796	1-216-295-91	SHORT	0	C8358	1-126-933-11	ELECT 100μF	20% 16V
R4797	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	C8359	1-126-933-11	ELECT 100μF	20% 16V
R4798	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	C8360	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
R4799	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	C8361	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
R4800	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	C8401	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V
R4801	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	C8402	1-163-037-11	CERAMIC CHIP 0.022μF	10% 50V
R4802	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	C8403	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
<CRYSTAL>				C8404	1-126-961-11	ELECT 2.2μF	20% 50V
X4701	1-781-148-21	VIBRATOR, CRYSTAL (18.432MHz)	*****	C8405	1-104-664-11	ELECT 47μF	20% 16V
				C8406	1-104-664-11	ELECT 47μF	20% 16V
				C8408	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V
				C8410	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
				C8411	1-163-021-91	CERAMIC CHIP 0.01μF	10% 50V
				C8414	1-104-664-11	ELECT 47μF	20% 16V
				C8415	1-163-227-11	CERAMIC CHIP 10pF	0.5pF 50V

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C8416	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C8513	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8417	1-107-682-11	CERAMIC CHIP	1μF 10% 16V	C8514	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8418	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8515	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8419	1-126-964-11	ELECT	10μF 20% 50V				
C8422	1-126-935-11	ELECT	470μF 20% 16V	C8516	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8423	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C8517	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8424	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V	C8518	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8427	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C8519	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8431	1-107-715-11	ELECT	22μF 20% 25V	C8520	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8437	1-126-963-11	ELECT	4.7μF 20% 50V	C8521	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8441	1-163-227-11	CERAMIC CHIP	10pF 0.5pF 50V	C8524	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8442	1-163-227-11	CERAMIC CHIP	10pF 0.5pF 50V	C8525	1-104-664-11	ELECT	47μF 20% 16V
C8444	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8526	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8445	1-163-117-00	CERAMIC CHIP	100pF 5% 50V	C8601	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8446	1-163-117-00	CERAMIC CHIP	100pF 5% 50V	C8602	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8447	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8603	1-104-664-11	ELECT	47μF 20% 16V
C8448	1-126-933-11	ELECT	100μF 20% 16V	C8604	1-104-664-11	ELECT	47μF 20% 16V
C8449	1-126-933-11	ELECT	100μF 20% 16V	C8605	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8450	1-126-935-11	ELECT	470μF 20% 16V	C8606	1-104-664-11	ELECT	47μF 20% 16V
C8451	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8607	1-126-933-11	ELECT	100μF 20% 16V
C8452	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8608	1-104-664-11	ELECT	47μF 20% 16V
C8453	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8609	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
C8454	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8613	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8455	1-126-964-11	ELECT	10μF 20% 50V	C8614	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
C8456	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8615	1-163-237-11	CERAMIC CHIP	27pF 5% 50V
C8457	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8616	1-104-664-11	ELECT	47μF 20% 16V
C8458	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8618	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V
C8459	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8620	1-104-664-11	ELECT	47μF 20% 16V
C8460	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8621	1-104-664-11	ELECT	47μF 20% 16V
C8461	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8622	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
C8462	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8623	1-104-664-11	ELECT	47μF 20% 16V
C8463	1-104-664-11	ELECT	47μF 20% 16V	C8624	1-104-664-11	ELECT	47μF 20% 16V
C8464	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8625	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
C8465	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8627	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
C8466	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C8628	1-104-664-11	ELECT	47μF 20% 16V
C8470	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8629	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
C8479	1-164-505-11	CERAMIC CHIP	2.2μF 16V	C8631	1-104-664-11	ELECT	47μF 20% 16V
C8486	1-164-505-11	CERAMIC CHIP	2.2μF 16V	C8632	1-104-664-11	ELECT	47μF 20% 16V
C8491	1-164-505-11	CERAMIC CHIP	2.2μF 16V	C8635	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C8492	1-164-505-11	CERAMIC CHIP	2.2μF 16V	C8636	1-107-823-11	CERAMIC CHIP	0.47μF 10% 16V
C8493	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8638	1-164-505-11	CERAMIC CHIP	2.2μF 16V
C8494	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8639	1-164-690-91	CERAMIC CHIP	0.0022μF 5% 50V
C8495	1-126-964-11	ELECT	10μF 20% 50V	C8700	1-126-964-11	ELECT	10μF 20% 50V
C8497	1-104-664-11	ELECT	47μF 20% 16V	C8703	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8501	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C8708	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8502	1-104-664-11	ELECT	47μF 20% 16V	C8709	1-126-964-11	ELECT	10μF 20% 50V
C8503	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8801	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V
C8504	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8802	1-104-664-11	ELECT	47μF 20% 16V
C8505	1-126-933-11	ELECT	100μF 20% 16V	C8803	1-104-664-11	ELECT	47μF 20% 16V
C8506	1-163-037-11	CERAMIC CHIP	0.022μF 10% 50V	C8804	1-104-664-11	ELECT	47μF 20% 16V
C8507	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8805	1-163-253-11	CERAMIC CHIP	120pF 5% 50V
C8508	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8806	1-163-249-11	CERAMIC CHIP	82pF 5% 50V
C8509	1-126-933-11	ELECT	100μF 20% 16V	C8807	1-163-249-11	CERAMIC CHIP	82pF 5% 50V
C8510	1-104-664-11	ELECT	47μF 20% 16V	C8808	1-163-227-11	CERAMIC CHIP	10pF 0.5pF 50V
C8511	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8809	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
C8512	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C8810	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V
				C8811	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V

**KP-48PS1/53PS1/61PS1**  
**48PS1K/53PS1K/61PS1K**



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C8812	1-104-664-11	ELECT	47μF 20% 25V	<DIODE>			
C8814	1-126-235-11	ELECT	100μF 20% 16V	D8301	8-719-976-96	DIODE DTZ4.7C	
C8815	1-163-253-11	CERAMIC CHIP	120pF 5% 50V	D8302	8-719-976-96	DIODE DTZ4.7C	
C8816	1-163-249-11	CERAMIC CHIP	82pF 5% 50V	D8450	8-719-158-49	DIODE RD12SB2	
C8817	1-163-249-11	CERAMIC CHIP	82pF 5% 50V	D8451	8-719-158-49	DIODE RD12SB2	
C8818	1-163-227-11	CERAMIC CHIP	10pF 0.5pF 50V	D8601	8-719-041-97	DIODE MA113-(TX)	
C8819	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V	D8900	8-719-069-59	DIODE UDZS-TE17-8.2B	
C8820	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	D8901	8-719-069-59	DIODE UDZS-TE17-8.2B	
C8821	1-104-664-11	ELECT	47μF 20% 25V	D8902	8-719-069-59	DIODE UDZS-TE17-8.2B	
C8822	1-115-340-11	CERAMIC CHIP	0.22μF 10% 25V	D8903	8-719-069-59	DIODE UDZS-TE17-8.2B	
C8823	1-126-933-11	ELECT	100μF 20% 16V	D8904	8-719-069-59	DIODE UDZS-TE17-8.2B	
C8824	1-126-933-11	ELECT	100μF 20% 16V	D8905	8-719-069-59	DIODE UDZS-TE17-8.2B	
C8825	1-126-933-11	ELECT	100μF 20% 16V	D8906	8-719-069-59	DIODE UDZS-TE17-8.2B	
C8900	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	D8907	8-719-158-49	DIODE RD12SB2	
C8901	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V	D8908	8-719-069-59	DIODE UDZS-TE17-8.2B	
C8902	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V	D8909	8-719-069-59	DIODE UDZS-TE17-8.2B	
C8903	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	D8910	8-719-069-59	DIODE UDZS-TE17-8.2B	
C8904	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	D8911	8-719-069-59	DIODE UDZS-TE17-8.2B	
C8905	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	D8912	8-719-158-49	DIODE RD12SB2	
C8906	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V	D8913	8-719-158-49	DIODE RD12SB2	
C8907	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V	D8914	8-719-158-49	DIODE RD12SB2	
C8908	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	D8915	8-719-158-49	DIODE RD12SB2	
C8909	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V	D8916	8-719-158-49	DIODE RD12SB2	
C8910	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	D8917	8-719-158-49	DIODE RD12SB2	
C8911	1-163-017-00	CERAMIC CHIP	0.0047μF 10% 50V	D8918	8-719-056-83	DIODE UDZ-TE-17-6.8B	
C8912	1-163-009-11	CERAMIC CHIP	0.001μF 10% 50V	D8919	8-719-056-83	DIODE UDZ-TE-17-6.8B	
C8913	1-163-009-11	CERAMIC CHIP	0.001μF 10% 50V	D8920	8-719-056-83	DIODE UDZ-TE-17-6.8B	
C8914	1-104-664-11	ELECT	47μF 20% 16V	D8921	8-719-056-83	DIODE UDZ-TE-17-6.8B	
C8915	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	D8922	8-719-158-49	DIODE RD12SB2	
C8916	1-126-933-11	ELECT	100μF 20% 16V	D8923	8-719-158-49	DIODE RD12SB2	
C8917	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	D8924	8-719-158-49	DIODE RD12SB2	
C8918	1-163-251-11	CERAMIC CHIP	100pF 5% 50V	D8925	8-719-158-49	DIODE RD12SB2	
C8919	1-164-505-11	CERAMIC CHIP	2.2μF 16V	D8926	8-719-158-49	DIODE RD12SB2	
C8920	1-164-505-11	CERAMIC CHIP	2.2μF 16V	D8927	8-719-158-49	DIODE RD12SB2	
C8921	1-104-664-11	ELECT	47μF 20% 16V	D8928	8-719-158-49	DIODE RD12SB2	
C8922	1-164-505-11	CERAMIC CHIP	2.2μF 16V	D8929	8-719-158-49	DIODE RD12SB2	
C8923	1-104-664-11	ELECT	47μF 20% 16V	D8930	8-719-158-49	DIODE RD12SB2	
C8924	1-164-505-11	CERAMIC CHIP	2.2μF 16V	D8931	8-719-158-49	DIODE RD12SB2	
C8925	1-104-664-11	ELECT	47μF 20% 16V	D8932	8-719-158-49	DIODE RD12SB2	
C8926	1-164-505-11	CERAMIC CHIP	2.2μF 16V	D8933	8-719-158-49	DIODE RD12SB2	
C8927	1-104-664-11	ELECT	47μF 20% 16V	<FILTER>			
C8928	1-164-505-11	CERAMIC CHIP	2.2μF 16V	FL8302	1-236-071-11	ENCAPSULATED COMPONENT	
C8929	1-104-664-11	ELECT	47μF 20% 16V	FL8303	1-236-071-11	ENCAPSULATED COMPONENT	
C8930	1-164-505-11	CERAMIC CHIP	2.2μF 16V	FL8304	1-236-071-11	ENCAPSULATED COMPONENT	
C8931	1-104-664-11	ELECT	47μF 20% 16V	FL8401	1-236-071-11	ENCAPSULATED COMPONENT	
C8932	1-164-505-11	CERAMIC CHIP	2.2μF 16V	FL8402	1-236-071-11	ENCAPSULATED COMPONENT	
<CONNECTOR>				FL8403	1-236-071-11	ENCAPSULATED COMPONENT	
CN8101	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P		FL8451	1-236-071-11	ENCAPSULATED COMPONENT	
CN8900	1-695-549-11	SOCKET, PIN 21P (AV 1)		FL8452	1-236-071-11	ENCAPSULATED COMPONENT	
CN8901	1-695-549-11	SOCKET, PIN 21P (AV 2)		FL8500	1-236-071-11	ENCAPSULATED COMPONENT	
CN8902	1-695-549-11	SOCKET, PIN 21P (AV 3)		FL8501	1-236-071-11	ENCAPSULATED COMPONENT	
CN8903 *	1-564-526-31	PLUG, CONNECTOR 11P		FL8502	1-233-765-21	FILTER	
				FL8503	1-233-768-21	FILTER	
				FL8504	1-233-766-21	FILTER	

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
FL8601	1-236-071-11	ENCAPSULATED COMPONENT		Q8601	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL8602	1-233-877-11	FILTER, LOW PASS		Q8602	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
FL8603	1-233-504-21	FILTER, LOW PASS		Q8603	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL8604	1-233-504-21	FILTER, LOW PASS		Q8604	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
FL8700	1-236-071-11	ENCAPSULATED COMPONENT		Q8605	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
FL8701	1-236-071-11	ENCAPSULATED COMPONENT		Q8606	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
<IC>				Q8607	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC8301	8-752-096-08	IC CXA2123BQ-T6		Q8609	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC8302	8-759-242-76	IC TC7W08F		Q8610	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC8303	8-759-242-76	IC TC7W08F		Q8611	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC8304	8-759-576-72	IC LF50CDT-TR		Q8612	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC8305	8-759-576-72	IC LF50CDT-TR		Q8614	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC8401	8-752-096-08	IC CXA2123BQ-T6		Q8615	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC8451	8-752-093-50	IC CXA2149Q-TL		Q8616	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC8452	8-759-576-76	IC TDA2822D013TR		Q8620	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC8500	8-752-390-37	IC CXD2064Q-T6		Q8621	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC8601	8-759-572-04	IC TDA9178T/N1.118		Q8623	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC8602	8-759-337-26	IC MM1115XFBE		Q8624	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
IC8801	8-759-385-76	IC MC14052BDR2		Q8625	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
<JACK>				Q8626	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
J8901	1-565-838-11	JACK BLOCK, PIN 2P (VARIABLE OUT)		Q8627	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
<COIL>				Q8628	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
L8101	1-402-711-11	INDUCTOR	0μH	Q8629	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L8102	1-402-711-11	INDUCTOR	0μH	Q8630	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
L8454	1-410-478-11	INDUCTOR	47μH	Q8631	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
L8455	1-410-478-11	INDUCTOR	47μH	Q8632	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
L8552	1-414-234-22	INDUCTOR CHIP	0μH	Q8633	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
L8601	1-414-234-22	INDUCTOR CHIP	0μH	Q8634	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
L8602	1-414-187-11	INDUCTOR	47μH	Q8635	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
L8606	1-414-234-22	INDUCTOR CHIP	0μH	Q8636	1-801-806-11	TRANSISTOR DTC144EKA	
L8607	1-414-234-22	INDUCTOR CHIP	0μH	Q8637	1-801-806-11	TRANSISTOR DTC144EKA	
L8801	1-412-954-11	INDUCTOR	18μH	Q8638	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L8802	1-412-954-11	INDUCTOR	18μH	Q8639	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L8803	1-414-234-22	INDUCTOR CHIP	0μH	Q8640	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
L8804	1-414-234-22	INDUCTOR CHIP	0μH	Q8801	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L8805	1-414-234-22	INDUCTOR CHIP	0μH	Q8802	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
L8806	1-414-234-22	INDUCTOR CHIP	0μH	Q8803	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
L8919	1-414-234-22	INDUCTOR CHIP	0μH	Q8804	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
<TRANSISTOR>				Q8805	8-729-039-67	TRANSISTOR BSS83	
Q8302	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q8806	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8309	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q8807	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8311	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q8808	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8451	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q8809	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8452	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q8810	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8501	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q8811	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q8502	8-729-120-28	TRANSISTOR 2SC1623-L5L6		Q8812	8-729-039-67	TRANSISTOR BSS83	
Q8503	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q8813	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q8504	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		Q8814	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q8815	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
				Q8901	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q8902	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
				Q8903	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q8904	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q8905	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
				Q8906	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

KP-48PS1/53PS1/61PS1  
48PS1K/53PS1K/61PS1K



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
		<RESISTOR>					
R8300	1-216-295-91	SHORT	0	R8441	1-216-295-91	SHORT	0
R8301	1-216-025-91	RES-CHIP	100 5% 1/10W	R8451	1-216-093-91	RES-CHIP	68K 5% 1/10W
R8302	1-216-017-91	RES-CHIP	47 5% 1/10W	R8452	1-216-093-91	RES-CHIP	68K 5% 1/10W
R8303	1-216-295-91	SHORT	0	R8453	1-208-820-11	METAL CHIP	39K 0.50% 1/10W
R8306	1-216-083-00	RES-CHIP	27K 5% 1/10W	R8454	1-208-776-11	METAL CHIP	560 0.50% 1/10W
R8307	1-216-295-91	SHORT	0	R8455	1-208-776-11	METAL CHIP	560 0.50% 1/10W
R8309	1-216-049-91	RES-CHIP	1K 5% 1/10W	R8458	1-216-033-00	RES-CHIP	220 5% 1/10W
R8315	1-216-295-91	SHORT	0	R8459	1-216-033-00	RES-CHIP	220 5% 1/10W
R8316	1-216-295-91	SHORT	0	R8466	1-216-025-91	RES-CHIP	100 5% 1/10W
R8317	1-216-295-91	SHORT	0	R8467	1-216-025-91	RES-CHIP	100 5% 1/10W
R8318	1-216-295-91	SHORT	0	R8468	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8319	1-216-295-91	SHORT	0	R8469	1-216-017-91	RES-CHIP	47 5% 1/10W
R8321	1-216-295-91	SHORT	0	R8470	1-216-022-00	RES-CHIP	75 5% 1/10W
R8323	1-216-017-91	RES-CHIP	47 5% 1/10W	R8474	1-216-017-91	RES-CHIP	47 5% 1/10W
R8326	1-216-017-91	RES-CHIP	47 5% 1/10W	R8475	1-216-022-00	RES-CHIP	75 5% 1/10W
R8327	1-216-121-91	RES-CHIP	1M 5% 1/10W	R8477	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8328	1-216-025-91	RES-CHIP	100 5% 1/10W	R8478	1-216-079-00	RES-CHIP	18K 5% 1/10W
R8329	1-216-025-91	RES-CHIP	100 5% 1/10W	R8479	1-216-295-91	SHORT	0
R8336	1-216-025-91	RES-CHIP	100 5% 1/10W	R8481	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R8338	1-216-017-91	RES-CHIP	47 5% 1/10W	R8482	1-216-029-00	RES-CHIP	150 5% 1/10W
R8339	1-216-017-91	RES-CHIP	47 5% 1/10W	R8483	1-216-029-00	RES-CHIP	150 5% 1/10W
R8340	1-216-063-91	RES-CHIP	3.9K 5% 1/10W	R8484	1-216-029-00	RES-CHIP	150 5% 1/10W
R8342	1-216-295-91	SHORT	0	R8485	1-216-029-00	RES-CHIP	150 5% 1/10W
R8401	1-216-295-91	SHORT	0	R8501	1-216-093-91	RES-CHIP	68K 5% 1/10W
R8402	1-216-295-91	SHORT	0	R8502	1-216-083-00	RES-CHIP	27K 5% 1/10W
R8403	1-216-083-00	RES-CHIP	27K 5% 1/10W	R8503	1-216-295-91	SHORT	0
R8405	1-216-063-91	RES-CHIP	3.9K 5% 1/10W	R8504	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8406	1-216-017-91	RES-CHIP	47 5% 1/10W	R8505	1-216-295-91	SHORT	0
R8407	1-216-071-00	RES-CHIP	8.2K 5% 1/10W	R8506	1-216-091-00	RES-CHIP	56K 5% 1/10W
R8409	1-216-017-91	RES-CHIP	47 5% 1/10W	R8507	1-216-295-91	SHORT	0
R8410	1-216-025-91	RES-CHIP	100 5% 1/10W	R8508	1-216-043-91	RES-CHIP	560 5% 1/10W
R8411	1-216-071-00	RES-CHIP	8.2K 5% 1/10W	R8509	1-216-031-00	RES-CHIP	180 5% 1/10W
R8412	1-216-025-91	RES-CHIP	100 5% 1/10W	R8510	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R8413	1-216-025-91	RES-CHIP	100 5% 1/10W	R8512	1-216-295-91	SHORT	0
R8414	1-216-025-91	RES-CHIP	100 5% 1/10W	R8514	1-216-017-91	RES-CHIP	47 5% 1/10W
R8415	1-216-025-91	RES-CHIP	100 5% 1/10W	R8517	1-216-295-91	SHORT	0
R8416	1-216-295-91	SHORT	0	R8519	1-216-037-00	RES-CHIP	330 5% 1/10W
R8417	1-216-295-91	SHORT	0	R8520	1-216-041-00	RES-CHIP	470 5% 1/10W
R8418	1-216-295-91	SHORT	0	R8521	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R8419	1-216-025-91	RES-CHIP	100 5% 1/10W	R8522	1-216-041-00	RES-CHIP	470 5% 1/10W
R8426	1-216-017-91	RES-CHIP	47 5% 1/10W	R8523	1-216-033-00	RES-CHIP	220 5% 1/10W
R8427	1-216-017-91	RES-CHIP	47 5% 1/10W	R8524	1-216-295-91	SHORT	0
R8428	1-216-017-91	RES-CHIP	47 5% 1/10W	R8526	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R8429	1-216-295-91	SHORT	0	R8527	1-216-047-91	RES-CHIP	820 5% 1/10W
R8430	1-216-089-91	RES-CHIP	47K 5% 1/10W	R8528	1-216-047-91	RES-CHIP	820 5% 1/10W
R8431	1-216-089-91	RES-CHIP	47K 5% 1/10W	R8529	1-216-055-00	RES-CHIP	1.8K 5% 1/10W
R8432	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8530	1-216-051-00	RES-CHIP	1.2K 5% 1/10W
R8433	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8531	1-216-053-00	RES-CHIP	1.5K 5% 1/10W
R8434	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R8532	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8435	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R8533	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8436	1-216-308-00	RES-CHIP	4.7 5% 1/10W	R8534	1-216-295-91	SHORT	0
R8437	1-216-308-00	RES-CHIP	4.7 5% 1/10W	R8535	1-216-295-91	SHORT	0
R8438	1-216-033-00	RES-CHIP	220 5% 1/10W	R8536	1-216-295-91	SHORT	0
R8439	1-216-033-00	RES-CHIP	220 5% 1/10W	R8600	1-216-295-91	SHORT	0
R8440	1-216-295-91	SHORT	0	R8601	1-216-091-00	RES-CHIP	56K 5% 1/10W
				R8602	1-216-295-91	SHORT	0

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R8603	1-216-051-00	RES-CHIP	1.2K 5% 1/10W	R8676	1-216-295-91	SHORT	0
R8604	1-216-041-00	RES-CHIP	470 5% 1/10W	R8677	1-216-041-00	RES-CHIP	470 5% 1/10W
R8605	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8678	1-216-055-00	RES-CHIP	1.8K 5% 1/10W
R8606	1-216-025-91	RES-CHIP	100 5% 1/10W	R8679	1-216-041-00	RES-CHIP	470 5% 1/10W
R8607	1-216-043-91	RES-CHIP	560 5% 1/10W	R8680	1-216-295-91	SHORT	0
R8608	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8681	1-216-041-00	RES-CHIP	470 5% 1/10W
R8609	1-216-049-91	RES-CHIP	1K 5% 1/10W	R8682	1-216-031-00	RES-CHIP	180 5% 1/10W
R8610	1-216-089-91	RES-CHIP	47K 5% 1/10W	R8683	1-216-041-00	RES-CHIP	470 5% 1/10W
R8611	1-216-041-00	RES-CHIP	470 5% 1/10W	R8684	1-216-295-91	SHORT	0
R8612	1-216-025-91	RES-CHIP	100 5% 1/10W	R8685	1-216-041-00	RES-CHIP	470 5% 1/10W
R8613	1-216-025-91	RES-CHIP	100 5% 1/10W	R8686	1-216-091-00	RES-CHIP	56K 5% 1/10W
R8614	1-216-295-91	SHORT	0	R8687	1-216-037-00	RES-CHIP	330 5% 1/10W
R8616	1-216-295-91	SHORT	0	R8688	1-216-081-00	RES-CHIP	22K 5% 1/10W
R8617	1-208-772-11	METAL CHIP	390 0.50% 1/10W	R8689	1-216-041-00	RES-CHIP	470 5% 1/10W
R8618	1-208-778-11	METAL CHIP	680 0.50% 1/10W	R8690	1-216-041-00	RES-CHIP	470 5% 1/10W
R8619	1-216-295-91	SHORT	0	R8692	1-216-041-00	RES-CHIP	470 5% 1/10W
R8621	1-216-025-91	RES-CHIP	100 5% 1/10W	R8693	1-216-041-00	RES-CHIP	470 5% 1/10W
R8623	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8694	1-216-041-00	RES-CHIP	470 5% 1/10W
R8624	1-216-041-00	RES-CHIP	470 5% 1/10W	R8695	1-216-013-00	RES-CHIP	33 5% 1/10W
R8625	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8696	1-216-013-00	RES-CHIP	33 5% 1/10W
R8626	1-216-041-00	RES-CHIP	470 5% 1/10W	R8697	1-216-055-00	RES-CHIP	1.8K 5% 1/10W
R8627	1-216-041-00	RES-CHIP	470 5% 1/10W	R8698	1-216-031-00	RES-CHIP	180 5% 1/10W
R8628	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8699	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R8629	1-216-041-00	RES-CHIP	470 5% 1/10W	R8710	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8630	1-216-025-91	RES-CHIP	100 5% 1/10W	R8711	1-216-091-00	RES-CHIP	56K 5% 1/10W
R8631	1-216-295-91	SHORT	0	R8712	1-216-081-00	RES-CHIP	22K 5% 1/10W
R8632	1-216-049-91	RES-CHIP	1K 5% 1/10W	R8713	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8633	1-216-041-00	RES-CHIP	470 5% 1/10W	R8714	1-216-049-91	RES-CHIP	1K 5% 1/10W
R8634	1-216-041-00	RES-CHIP	470 5% 1/10W	R8715	1-216-051-00	RES-CHIP	1.2K 5% 1/10W
R8635	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8716	1-216-043-91	RES-CHIP	560 5% 1/10W
R8636	1-216-041-00	RES-CHIP	470 5% 1/10W	R8717	1-216-037-00	RES-CHIP	330 5% 1/10W
R8640	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R8718	1-216-051-00	RES-CHIP	1.2K 5% 1/10W
R8642	1-216-051-00	RES-CHIP	1.2K 5% 1/10W	R8719	1-216-043-91	RES-CHIP	560 5% 1/10W
R8644	1-216-041-00	RES-CHIP	470 5% 1/10W	R8720	1-216-061-00	RES-CHIP	3.3K 5% 1/10W
R8645	1-216-091-00	RES-CHIP	56K 5% 1/10W	R8721	1-216-073-00	RES-CHIP	10K 5% 1/10W
R8646	1-216-295-91	SHORT	0	R8722	1-216-097-91	RES-CHIP	100K 5% 1/10W
R8647	1-216-025-91	RES-CHIP	100 5% 1/10W	R8723	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8648	1-216-025-91	RES-CHIP	100 5% 1/10W	R8724	1-216-095-00	RES-CHIP	82K 5% 1/10W
R8649	1-216-079-00	RES-CHIP	18K 5% 1/10W	R8725	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8650	1-216-295-91	SHORT	0	R8726	1-216-295-91	SHORT	0
R8652	1-216-037-00	RES-CHIP	330 5% 1/10W	R8727	1-216-045-00	RES-CHIP	680 5% 1/10W
R8653	1-216-041-00	RES-CHIP	470 5% 1/10W	R8728	1-216-045-00	RES-CHIP	680 5% 1/10W
R8654	1-216-067-00	RES-CHIP	5.6K 5% 1/10W	R8729	1-216-033-00	RES-CHIP	220 5% 1/10W
R8655	1-216-051-00	RES-CHIP	1.2K 5% 1/10W	R8730	1-216-295-91	SHORT	0
R8659	1-216-091-00	RES-CHIP	56K 5% 1/10W	R8801	1-216-035-00	RES-CHIP	270 5% 1/10W
R8660	1-216-081-00	RES-CHIP	22K 5% 1/10W	R8802	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8661	1-216-051-00	RES-CHIP	1.2K 5% 1/10W	R8803	1-216-073-00	RES-CHIP	10K 5% 1/10W
R8664	1-216-051-00	RES-CHIP	1.2K 5% 1/10W	R8804	1-216-033-00	RES-CHIP	220 5% 1/10W
R8665	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R8805	1-216-059-00	RES-CHIP	2.7K 5% 1/10W
R8666	1-216-295-91	SHORT	0	R8806	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8667	1-216-043-91	RES-CHIP	560 5% 1/10W	R8807	1-216-073-00	RES-CHIP	10K 5% 1/10W
R8670	1-216-039-00	RES-CHIP	390 5% 1/10W	R8808	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R8671	1-216-091-00	RES-CHIP	56K 5% 1/10W	R8809	1-216-085-00	RES-CHIP	33K 5% 1/10W
R8672	1-216-295-91	SHORT	0	R8810	1-216-089-91	RES-CHIP	47K 5% 1/10W
R8673	1-216-079-00	RES-CHIP	18K 5% 1/10W	R8812	1-216-037-00	RES-CHIP	330 5% 1/10W
R8675	1-216-037-00	RES-CHIP	330 5% 1/10W	R8813	1-216-037-00	RES-CHIP	330 5% 1/10W

**KP-48PS1/53PS1/61PS1**  
**48PS1K/53PS1K/61PS1K**



RM-892

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R8814	1-216-065-91	RES-CHIP	4.7K	5%	1/10W	R8921	1-216-295-91 SHORT 0
R8815	1-216-049-91	RES-CHIP	1K	5%	1/10W	R8922	1-216-022-00 RES-CHIP 75 5% 1/10W
R8816	1-216-073-00	RES-CHIP	10K	5%	1/10W	R8923	1-216-022-00 RES-CHIP 75 5% 1/10W
R8817	1-216-073-00	RES-CHIP	10K	5%	1/10W	R8924	1-216-022-00 RES-CHIP 75 5% 1/10W
R8818	1-208-773-11	METAL CHIP	430	0.50%	1/10W	R8925	1-216-022-00 RES-CHIP 75 5% 1/10W
R8819	1-216-089-91	RES-CHIP	47K	5%	1/10W	R8926	1-216-017-91 RES-CHIP 47 5% 1/10W
R8820	1-216-073-00	RES-CHIP	10K	5%	1/10W	R8927	1-216-017-91 RES-CHIP 47 5% 1/10W
R8821	1-216-025-91	RES-CHIP	100	5%	1/10W	R8928	1-216-017-91 RES-CHIP 47 5% 1/10W
R8823	1-216-051-00	RES-CHIP	1.2K	5%	1/10W	R8929	1-216-039-00 RES-CHIP 390 5% 1/10W
R8824	1-216-089-91	RES-CHIP	47K	5%	1/10W	R8930	1-216-049-91 RES-CHIP 1K 5% 1/10W
R8825	1-216-073-00	RES-CHIP	10K	5%	1/10W	R8931	1-216-039-00 RES-CHIP 390 5% 1/10W
R8826	1-216-295-91	SHORT	0			R8932	1-216-049-91 RES-CHIP 1K 5% 1/10W
R8827	1-216-295-91	SHORT	0			R8933	1-216-089-91 RES-CHIP 47K 5% 1/10W
R8828	1-216-029-00	RES-CHIP	150	5%	1/10W	R8934	1-216-089-91 RES-CHIP 47K 5% 1/10W
R8831	1-216-031-00	RES-CHIP	180	5%	1/10W	R8935	1-216-113-00 RES-CHIP 470K 5% 1/10W
R8832	1-216-055-00	RES-CHIP	1.8K	5%	1/10W	R8936	1-216-113-00 RES-CHIP 470K 5% 1/10W
R8833	1-216-295-91	SHORT	0			R8937	1-216-035-00 RES-CHIP 270 5% 1/10W
R8834	1-216-037-00	RES-CHIP	330	5%	1/10W	R8938	1-216-057-00 RES-CHIP 2.2K 5% 1/10W
R8835	1-216-037-00	RES-CHIP	330	5%	1/10W	R8939	1-216-035-00 RES-CHIP 270 5% 1/10W
R8836	1-216-089-91	RES-CHIP	47K	5%	1/10W	R8940	1-216-057-00 RES-CHIP 2.2K 5% 1/10W
R8837	1-216-079-00	RES-CHIP	18K	5%	1/10W	R8941	1-216-025-91 RES-CHIP 100 5% 1/10W
R8838	1-216-049-91	RES-CHIP	1K	5%	1/10W	R8942	1-216-009-91 RES-CHIP 22 5% 1/10W
R8839	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R8943	1-216-022-00 RES-CHIP 75 5% 1/10W
R8840	1-216-073-00	RES-CHIP	10K	5%	1/10W	R8944	1-216-071-00 RES-CHIP 8.2K 5% 1/10W
R8841	1-208-773-11	METAL CHIP	430	0.50%	1/10W	R8945	1-216-022-00 RES-CHIP 75 5% 1/10W
R8842	1-216-025-91	RES-CHIP	100	5%	1/10W	R8946	1-216-017-91 RES-CHIP 47 5% 1/10W
R8843	1-216-051-00	RES-CHIP	1.2K	5%	1/10W	R8947	1-216-039-00 RES-CHIP 390 5% 1/10W
R8844	1-216-295-91	SHORT	0			R8948	1-216-049-91 RES-CHIP 1K 5% 1/10W
R8845	1-216-041-00	RES-CHIP	470	5%	1/10W	R8949	1-216-022-00 RES-CHIP 75 5% 1/10W
R8846	1-216-041-00	RES-CHIP	470	5%	1/10W	R8950	1-216-089-91 RES-CHIP 47K 5% 1/10W
R8847	1-216-041-00	RES-CHIP	470	5%	1/10W	R8951	1-216-017-91 RES-CHIP 47 5% 1/10W
R8850	1-216-295-91	SHORT	0			R8952	1-216-113-00 RES-CHIP 470K 5% 1/10W
R8851	1-216-295-91	SHORT	0			R8953	1-216-035-00 RES-CHIP 270 5% 1/10W
R8853	1-216-089-91	RES-CHIP	47K	5%	1/10W	R8954	1-216-057-00 RES-CHIP 2.2K 5% 1/10W
R8854	1-216-085-00	RES-CHIP	33K	5%	1/10W	R8955	1-216-039-00 RES-CHIP 390 5% 1/10W
R8900	1-216-039-00	RES-CHIP	390	5%	1/10W	R8956	1-216-049-91 RES-CHIP 1K 5% 1/10W
R8901	1-216-049-91	RES-CHIP	1K	5%	1/10W	R8957	1-216-025-91 RES-CHIP 100 5% 1/10W
R8902	1-216-039-00	RES-CHIP	390	5%	1/10W	R8958	1-216-089-91 RES-CHIP 47K 5% 1/10W
R8903	1-216-089-91	RES-CHIP	47K	5%	1/10W	R8959	1-216-022-00 RES-CHIP 75 5% 1/10W
R8904	1-216-089-91	RES-CHIP	47K	5%	1/10W	R8960	1-216-017-91 RES-CHIP 47 5% 1/10W
R8905	1-216-113-00	RES-CHIP	470K	5%	1/10W	R8961	1-216-022-00 RES-CHIP 75 5% 1/10W
R8906	1-216-035-00	RES-CHIP	270	5%	1/10W	R8962	1-216-071-00 RES-CHIP 8.2K 5% 1/10W
R8907	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R8963	1-216-113-00 RES-CHIP 470K 5% 1/10W
R8908	1-216-035-00	RES-CHIP	270	5%	1/10W	R8964	1-216-035-00 RES-CHIP 270 5% 1/10W
R8909	1-216-049-91	RES-CHIP	1K	5%	1/10W	R8965	1-216-057-00 RES-CHIP 2.2K 5% 1/10W
R8910	1-216-295-91	SHORT	0			R8966	1-216-037-00 RES-CHIP 330 5% 1/10W
R8911	1-216-025-91	RES-CHIP	100	5%	1/10W	R8967	1-216-037-00 RES-CHIP 330 5% 1/10W
R8912	1-216-295-91	SHORT	0			R8968	1-216-022-00 RES-CHIP 75 5% 1/10W
R8913	1-216-022-00	RES-CHIP	75	5%	1/10W	R8969	1-216-017-91 RES-CHIP 47 5% 1/10W
R8914	1-216-071-00	RES-CHIP	8.2K	5%	1/10W	R8972	1-216-045-00 RES-CHIP 680 5% 1/10W
R8915	1-216-022-00	RES-CHIP	75	5%	1/10W	R8973	1-216-045-00 RES-CHIP 680 5% 1/10W
R8916	1-216-017-91	RES-CHIP	47	5%	1/10W	R8974	1-216-113-00 RES-CHIP 470K 5% 1/10W
R8917	1-216-017-91	RES-CHIP	47	5%	1/10W	R8975	1-216-057-00 RES-CHIP 2.2K 5% 1/10W
R8918	1-216-113-00	RES-CHIP	470K	5%	1/10W	R8976	1-216-113-00 RES-CHIP 470K 5% 1/10W
R8919	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	R8977	1-216-057-00 RES-CHIP 2.2K 5% 1/10W
R8920	1-216-295-91	SHORT	0			R8978	1-216-059-00 RES-CHIP 2.7K 5% 1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R8979	1-216-041-00	RES-CHIP	470 5% 1/10W	C2636	1-104-664-11	ELECT	47μF 20% 25V
R8981	1-216-089-91	RES-CHIP	47K 5% 1/10W	C2637	1-163-259-91	CERAMIC CHIP	220pF 5% 50V
R8982	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	C2639	1-104-664-11	ELECT	47μF 20% 25V
R8983	1-216-079-00	RES-CHIP	18K 5% 1/10W	C2640	1-104-664-11	ELECT	47μF 20% 25V
R8984	1-216-295-91	SHORT	0	C2641	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R8985	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	C2643	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R8986	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	C2644	1-164-690-91	CERAMIC CHIP	0.0022μF 5% 50V
R8987	1-216-089-91	RES-CHIP	47K 5% 1/10W	C2645	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R8988	1-216-089-91	RES-CHIP	47K 5% 1/10W	C2647	1-104-664-11	ELECT	47μF 20% 25V
R8994	1-216-073-00	RES-CHIP	10K 5% 1/10W	C2648	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R8995	1-216-089-91	RES-CHIP	47K 5% 1/10W	C2649	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R8996	1-216-049-91	RES-CHIP	1K 5% 1/10W	C2650	1-163-038-91	CERAMIC CHIP	0.1μF 25V
R8997	1-216-049-91	RES-CHIP	1K 5% 1/10W	C2651	1-104-664-11	ELECT	47μF 20% 25V
<TERMINAL BOARD>				C2652	1-163-038-91	CERAMIC CHIP	0.1μF 25V
TB8101	1-537-712-11	TERMINAL, PUSH (CENTER SP IN)		C2655	1-163-275-11	CERAMIC CHIP	0.001μF 5% 50V
<CRYSTAL>				C2656	1-104-664-11	ELECT	47μF 20% 25V
X8301	1-781-612-11	VIBRATOR, CRYSTAL (16.2MHz)		C2658	1-163-038-91	CERAMIC CHIP	0.1μF 25V
X8401	1-781-612-11	VIBRATOR, CRYSTAL (16.2MHz)		C2659	1-163-038-91	CERAMIC CHIP	0.1μF 25V
*****				C2660	1-104-664-11	ELECT	47μF 20% 25V
* A-1136-077-A BD BOARD, COMPLETE				C2661	1-163-259-91	CERAMIC CHIP	220pF 5% 50V
*****				C2662	1-163-038-91	CERAMIC CHIP	0.1μF 25V
<CAPACITOR>				C2663	1-104-664-11	ELECT	47μF 20% 25V
C2601	1-104-664-11	ELECT	47μF 20% 25V	C2666	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C2602	1-163-259-91	CERAMIC CHIP	220pF 5% 50V	C2667	1-164-690-91	CERAMIC CHIP	0.0022μF 5% 50V
C2603	1-104-664-11	ELECT	47μF 20% 25V	C2668	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C2604	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C2670	1-104-664-11	ELECT	47μF 20% 25V
C2607	1-163-275-11	CERAMIC CHIP	0.001μF 5% 50V	C2673	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C2608	1-104-664-11	ELECT	47μF 20% 25V	C2674	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C2609	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C2675	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C2610	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C2678	1-163-275-11	CERAMIC CHIP	0.001μF 5% 50V
C2611	1-104-664-11	ELECT	47μF 20% 25V	C2679	1-104-664-11	ELECT	47μF 20% 25V
C2612	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C2680	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C2613	1-104-664-11	ELECT	47μF 20% 25V	C2681	1-104-664-11	ELECT	47μF 20% 25V
C2615	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C2683	1-104-664-11	ELECT	47μF 20% 25V
C2616	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C2685	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C2617	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C2686	1-164-690-91	CERAMIC CHIP	0.0022μF 5% 50V
C2618	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C2689	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C2619	1-164-690-91	CERAMIC CHIP	0.0022μF 5% 50V	C2690	1-126-967-11	ELECT	47μF 20% 50V
C2620	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C2691	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C2621	1-104-664-11	ELECT	47μF 20% 25V	C2692	1-126-967-11	ELECT	47μF 20% 50V
C2622	1-104-664-11	ELECT	47μF 20% 25V	C2693	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C2623	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C2694	1-104-664-11	ELECT	47μF 20% 25V
C2624	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V	C2695	1-163-259-91	CERAMIC CHIP	220pF 5% 50V
C2625	1-104-664-11	ELECT	47μF 20% 25V	C2696	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C2626	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V	C2697	1-104-664-11	ELECT	47μF 20% 25V
C2627	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C2698	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C2628	1-104-664-11	ELECT	47μF 20% 25V	C2699	1-163-038-91	CERAMIC CHIP	0.1μF 25V
C2631	1-163-275-11	CERAMIC CHIP	0.001μF 5% 50V	C2700	1-163-001-11	CERAMIC CHIP	220pF 10% 50V
C2633	1-115-339-11	CERAMIC CHIP	0.1μF 10% 50V	C2701	1-164-346-11	CERAMIC CHIP	1μF 16V
C2635	1-163-038-91	CERAMIC CHIP	0.1μF 25V	C2705	1-163-275-11	CERAMIC CHIP	0.001μF 5% 50V
				C2706	1-163-038-91	CERAMIC CHIP	0.1μF 25V
				C2707	1-163-038-91	CERAMIC CHIP	0.1μF 25V
				C2708	1-163-038-91	CERAMIC CHIP	0.1μF 25V
				C2709	1-104-664-11	ELECT	47μF 20% 25V
				C2710	1-126-961-11	ELECT	2.2μF 20% 50V
				C2711	1-126-961-11	ELECT	2.2μF 20% 50V

KP-48PS1/53PS1/61PS1  
48PS1K/53PS1K/61PS1K



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C2713	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C2779	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V
C2714	1-104-664-11	ELECT 47μF	20% 25V	C2780	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V
C2715	1-164-690-91	CERAMIC CHIP 0.0022μF	5% 50V	C2781	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C2716	1-163-038-91	CERAMIC CHIP 0.1μF	25V	C2782	1-163-038-91	CERAMIC CHIP 0.1μF	25V
C2717	1-104-664-11	ELECT 47μF	20% 25V	<CONNECTOR>			
C2718	1-164-346-11	CERAMIC CHIP 1μF	16V	CN2601	* 1-564-522-11	PLUG, CONNECTOR 7P	
C2719	1-164-004-11	CERAMIC CHIP 0.1μF	10% 25V	CN2602	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	
C2720	1-104-664-11	ELECT 47μF	20% 25V	CN2603	* 1-564-511-11	PLUG, CONNECTOR 8P	
C2721	1-163-259-91	CERAMIC CHIP 220pF	5% 50V	CN2604	1-695-915-11	TAB (CONTACT)	
C2722	1-163-275-11	CERAMIC CHIP 0.001μF	5% 50V	<DIODE>			
C2725	1-163-038-91	CERAMIC CHIP 0.1μF	25V	D2601	8-719-988-61	DIODE 1SS355TE-17	
C2726	1-126-964-11	ELECT 10μF	20% 50V	D2602	8-719-988-61	DIODE 1SS355TE-17	
C2727	1-164-346-11	CERAMIC CHIP 1μF	16V	D2603	8-719-988-61	DIODE 1SS355TE-17	
C2728	1-163-009-11	CERAMIC CHIP 0.001μF	10% 50V	D2604	8-719-988-61	DIODE 1SS355TE-17	
C2729	1-163-009-11	CERAMIC CHIP 0.001μF	10% 50V	D2605	8-719-976-99	DIODE DTZ5.1B	
C2730	1-104-664-11	ELECT 47μF	20% 25V	D2606	8-719-988-61	DIODE 1SS355TE-17	
C2731	1-164-346-11	CERAMIC CHIP 1μF	16V	D2607	8-719-158-49	DIODE RD12SB2	
C2733	1-163-038-91	CERAMIC CHIP 0.1μF	25V	D2608	8-719-976-99	DIODE DTZ5.1B	
C2737	1-164-690-91	CERAMIC CHIP 0.0022μF	5% 50V	D2609	8-719-988-61	DIODE 1SS355TE-17	
C2738	1-163-038-91	CERAMIC CHIP 0.1μF	25V	D2610	8-719-988-61	DIODE 1SS355TE-17	
C2739	1-163-038-91	CERAMIC CHIP 0.1μF	25V	D2611	8-719-988-61	DIODE 1SS355TE-17	
C2740	1-163-038-91	CERAMIC CHIP 0.1μF	25V	D2612	8-719-976-99	DIODE DTZ5.1B	
C2741	1-163-237-11	CERAMIC CHIP 27pF	5% 50V	D2613	8-719-158-49	DIODE RD12SB2	
C2742	1-163-231-11	CERAMIC CHIP 15pF	5% 50V	D2614	8-719-976-99	DIODE DTZ5.1B	
C2744	1-163-038-91	CERAMIC CHIP 0.1μF	25V	D2615	8-719-988-61	DIODE 1SS355TE-17	
C2745	1-104-664-11	ELECT 47μF	20% 25V	D2616	8-719-976-99	DIODE DTZ5.1B	
C2746	1-104-664-11	ELECT 47μF	20% 25V	D2617	8-719-158-49	DIODE RD12SB2	
C2747	1-104-664-11	ELECT 47μF	20% 25V	D2618	8-719-976-99	DIODE DTZ5.1B	
C2748	1-163-259-91	CERAMIC CHIP 220pF	5% 50V	D2619	8-719-988-61	DIODE 1SS355TE-17	
C2749	1-163-038-91	CERAMIC CHIP 0.1μF	25V	D2620	8-719-158-49	DIODE RD12SB2	
C2753	1-163-038-91	CERAMIC CHIP 0.1μF	25V	D2621	8-719-976-99	DIODE DTZ5.1B	
C2754	1-163-038-91	CERAMIC CHIP 0.1μF	25V	D2622	8-719-976-99	DIODE DTZ5.1B	
C2755	1-163-038-91	CERAMIC CHIP 0.1μF	25V	D2623	8-719-988-61	DIODE 1SS355TE-17	
C2756	1-104-664-11	ELECT 47μF	20% 25V	D2624	8-719-988-61	DIODE 1SS355TE-17	
C2757	1-163-038-91	CERAMIC CHIP 0.1μF	25V	<FERRITE BEAD>			
C2758	1-163-038-91	CERAMIC CHIP 0.1μF	25V	FB2601	1-216-295-91	SHORT	0
C2759	1-163-038-91	CERAMIC CHIP 0.1μF	25V	FB2602	1-216-295-91	SHORT	0
C2760	1-163-235-11	CERAMIC CHIP 22pF	5% 50V	FB2603	1-216-295-91	SHORT	0
C2761	1-163-263-11	CERAMIC CHIP 330pF	5% 50V	FB2604	1-216-295-91	SHORT	0
C2762	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V	<IC>			
C2763	1-104-664-11	ELECT 47μF	20% 16V	IC2601	8-759-106-02	IC μPC4570G2	
C2764	1-163-038-91	CERAMIC CHIP 0.1μF	25V	IC2602	8-759-998-22	IC PCM56P	
C2765	1-107-823-11	CERAMIC CHIP 0.47μF	10% 16V	IC2603	8-759-106-02	IC μPC4570G2	
C2766	1-163-016-00	CERAMIC CHIP 0.0039μF	10% 50V	IC2604	8-759-998-22	IC PCM56P	
C2767	1-163-016-00	CERAMIC CHIP 0.0039μF	10% 50V	IC2605	8-759-589-66	IC CM0006CF	
C2768	1-163-038-91	CERAMIC CHIP 0.1μF	25V	IC2606	8-759-485-79	IC TC7SET08FU(TE85)	
C2769	1-104-664-11	ELECT 47μF	20% 16V	IC2607	8-759-925-85	IC SN74HC32ANS	
C2770	1-163-263-11	CERAMIC CHIP 330pF	5% 50V	IC2608	8-759-106-02	IC μPC4570G2	
C2771	1-163-016-00	CERAMIC CHIP 0.0039μF	10% 50V	IC2609	8-759-998-22	IC PCM56P	
C2772	1-163-038-91	CERAMIC CHIP 0.1μF	25V	IC2610	8-759-106-02	IC μPC4570G2	
C2773	1-163-038-91	CERAMIC CHIP 0.1μF	25V				
C2774	1-163-016-00	CERAMIC CHIP 0.0039μF	10% 50V				
C2775	1-104-664-11	ELECT 47μF	20% 16V				
C2776	1-104-664-11	ELECT 47μF	20% 16V				
C2777	1-163-263-11	CERAMIC CHIP 330pF	5% 50V				
C2778	1-163-263-11	CERAMIC CHIP 330pF	5% 50V				

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
IC2611	8-759-488-29	IC TC7W66FU(TE12R)		L2648	1-469-555-21	INDUCTOR	10μH
IC2612	8-759-295-09	IC TLC2932IPW		L2649	1-412-029-11	INDUCTOR CHIP	10μH
IC2613	8-759-925-90	IC SN74HC74ANS		L2652	1-414-234-22	INDUCTOR CHIP	0μH
IC2614	8-759-998-22	IC PCM56P		L2653	1-469-555-21	INDUCTOR	10μH
IC2615	8-759-485-79	IC TC7SET08FU(TE85)		L2654	1-414-234-22	INDUCTOR CHIP	0μH
IC2616	8-759-106-02	IC μPC4570G2		L2656	1-469-555-21	INDUCTOR	10μH
IC2617	8-759-352-91	IC PST9143NL		L2657	1-414-234-22	INDUCTOR CHIP	0μH
IC2618	8-759-038-15	IC MC74HC4538AF		L2658	1-414-234-22	INDUCTOR CHIP	0μH
IC2619	8-752-914-81	IC CXP86324-027Q		L2659	1-414-234-22	INDUCTOR CHIP	0μH
IC2620	8-759-367-69	IC MC74HC74AFEL		L2661	1-414-234-22	INDUCTOR CHIP	0μH
IC2621	8-759-564-06	IC M24C32-MN6T		L2663	1-414-234-22	INDUCTOR CHIP	0μH
IC2622	8-759-106-02	IC μPC4570G2		L2664	1-414-234-22	INDUCTOR CHIP	0μH
IC2623	8-759-998-22	IC PCM56P		L2665	1-216-295-91	SHORT	0
IC2625	8-759-998-22	IC PCM56P		L2666	1-216-295-91	SHORT	0
IC2626	8-759-394-80	IC NJM2058M-TE2		L2667	1-216-295-91	SHORT	0
IC2627	8-759-394-80	IC NJM2058M-TE2		L2668	1-216-295-91	SHORT	0
		<CHIP CONDUCTOR>		L2669	1-216-295-91	SHORT	0
JR2605	1-216-295-91	SHORT	0	L2670	1-216-295-91	SHORT	0
		<COIL>				<TRANSISTOR>	
L2601	1-414-234-22	INDUCTOR CHIP	0μH	Q2601	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L2602	1-414-234-22	INDUCTOR CHIP	0μH	Q2602	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
L2605	1-469-555-21	INDUCTOR	10μH	Q2603	1-801-806-11	TRANSISTOR DTC144EKA	
L2606	1-414-234-22	INDUCTOR CHIP	0μH	Q2604	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
L2608	1-469-555-21	INDUCTOR	10μH	Q2605	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L2609	1-414-234-22	INDUCTOR CHIP	0μH	Q2606	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L2610	1-414-234-22	INDUCTOR CHIP	0μH	Q2607	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
L2611	1-412-029-11	INDUCTOR CHIP	10μH	Q2608	1-801-806-11	TRANSISTOR DTC144EKA	
L2612	1-414-234-22	INDUCTOR CHIP	0μH	Q2610	1-801-806-11	TRANSISTOR DTC144EKA	
L2615	1-414-234-22	INDUCTOR CHIP	0μH	Q2611	1-801-806-11	TRANSISTOR DTC144EKA	
L2616	1-414-234-22	INDUCTOR CHIP	0μH	Q2612	1-801-806-11	TRANSISTOR DTC144EKA	
L2617	1-469-555-21	INDUCTOR	10μH	Q2613	1-801-806-11	TRANSISTOR DTC144EKA	
L2618	1-469-555-21	INDUCTOR	10μH	Q2614	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L2619	1-414-234-22	INDUCTOR CHIP	0μH			<RESISTOR>	
L2621	1-414-234-22	INDUCTOR CHIP	0μH	R2601	1-208-782-11	METAL CHIP	1K 0.50% 1/10W
L2622	1-414-234-22	INDUCTOR CHIP	0μH	R2602	1-208-799-11	METAL CHIP	5.1K 0.50% 1/10W
L2625	1-414-234-22	INDUCTOR CHIP	0μH	R2603	1-208-782-11	METAL CHIP	1K 0.50% 1/10W
L2626	1-469-555-21	INDUCTOR	10μH	R2606	1-208-799-11	METAL CHIP	5.1K 0.50% 1/10W
L2627	1-414-234-22	INDUCTOR CHIP	0μH	R2607	1-216-295-91	SHORT	0
L2628	1-469-555-21	INDUCTOR	10μH	R2608	1-216-295-91	SHORT	0
L2629	1-414-234-22	INDUCTOR CHIP	0μH	R2609	1-216-025-91	RES-CHIP	100 5% 1/10W
L2633	1-412-029-11	INDUCTOR CHIP	10μH	R2610	1-216-025-91	RES-CHIP	100 5% 1/10W
L2634	1-414-234-22	INDUCTOR CHIP	0μH	R2611	1-216-025-91	RES-CHIP	100 5% 1/10W
L2635	1-414-234-22	INDUCTOR CHIP	0μH	R2612	1-216-025-91	RES-CHIP	100 5% 1/10W
L2636	1-469-555-21	INDUCTOR	10μH	R2613	1-216-025-91	RES-CHIP	100 5% 1/10W
L2637	1-414-234-22	INDUCTOR CHIP	0μH	R2621	1-216-025-91	RES-CHIP	100 5% 1/10W
L2638	1-414-234-22	INDUCTOR CHIP	0μH	R2622	1-216-025-91	RES-CHIP	100 5% 1/10W
L2639	1-469-555-21	INDUCTOR	10μH	R2623	1-216-025-91	RES-CHIP	100 5% 1/10W
L2640	1-414-234-22	INDUCTOR CHIP	0μH	R2624	1-216-081-00	RES-CHIP	22K 5% 1/10W
L2643	1-414-234-22	INDUCTOR CHIP	0μH	R2625	1-216-025-91	RES-CHIP	100 5% 1/10W
L2645	1-469-555-21	INDUCTOR	10μH	R2628	1-216-049-91	RES-CHIP	1K 5% 1/10W
L2646	1-414-234-22	INDUCTOR CHIP	0μH	R2629	1-208-782-11	METAL CHIP	1K 0.50% 1/10W
L2647	1-414-234-22	INDUCTOR CHIP	0μH	R2630	1-208-816-11	METAL CHIP	27K 0.50% 1/10W

**KP-48PS1/53PS1/61PS1**  
**48PS1K/53PS1K/61PS1K**



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R2631	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R2694	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R2632	1-208-782-11	METAL CHIP	1K 0.50% 1/10W	R2695	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R2634	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2697	1-216-043-91	RES-CHIP	560 5% 1/10W
R2635	1-208-802-11	METAL CHIP	6.8K 0.50% 1/10W	R2698	1-216-037-00	RES-CHIP	330 5% 1/10W
R2636	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2699	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R2637	1-216-071-00	RES-CHIP	8.2K 5% 1/10W	R2701	1-216-041-00	RES-CHIP	470 5% 1/10W
R2638	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2703	1-216-037-00	RES-CHIP	330 5% 1/10W
R2639	1-208-801-11	METAL CHIP	6.2K 0.50% 1/10W	R2704	1-216-049-91	RES-CHIP	1K 5% 1/10W
R2640	1-216-033-00	RES-CHIP	220 5% 1/10W	R2705	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R2641	1-208-799-11	METAL CHIP	5.1K 0.50% 1/10W	R2706	1-208-782-11	METAL CHIP	1K 0.50% 1/10W
R2643	1-216-033-00	RES-CHIP	220 5% 1/10W	R2707	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R2644	1-216-071-00	RES-CHIP	8.2K 5% 1/10W	R2708	1-216-049-91	RES-CHIP	1K 5% 1/10W
R2645	1-216-033-00	RES-CHIP	220 5% 1/10W	R2709	1-216-025-91	RES-CHIP	100 5% 1/10W
R2646	1-208-799-11	METAL CHIP	5.1K 0.50% 1/10W	R2710	1-216-025-91	RES-CHIP	100 5% 1/10W
R2647	1-216-025-91	RES-CHIP	100 5% 1/10W	R2712	1-208-782-11	METAL CHIP	1K 0.50% 1/10W
R2648	1-216-295-91	SHORT	0	R2714	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R2649	1-216-295-91	SHORT	0	R2715	1-216-049-91	RES-CHIP	1K 5% 1/10W
R2650	1-216-025-91	RES-CHIP	100 5% 1/10W	R2716	1-216-025-91	RES-CHIP	100 5% 1/10W
R2651	1-216-025-91	RES-CHIP	100 5% 1/10W	R2717	1-208-799-11	METAL CHIP	5.1K 0.50% 1/10W
R2652	1-216-025-91	RES-CHIP	100 5% 1/10W	R2719	1-208-799-11	METAL CHIP	5.1K 0.50% 1/10W
R2653	1-216-025-91	RES-CHIP	100 5% 1/10W	R2720	1-216-295-91	SHORT	0
R2654	1-216-071-00	RES-CHIP	8.2K 5% 1/10W	R2721	1-216-295-91	SHORT	0
R2655	1-216-025-91	RES-CHIP	100 5% 1/10W	R2723	1-208-793-11	METAL CHIP	3K 0.50% 1/10W
R2657	1-216-025-91	RES-CHIP	100 5% 1/10W	R2725	1-208-776-11	METAL CHIP	560 0.50% 1/10W
R2658	1-216-025-91	RES-CHIP	100 5% 1/10W	R2726	1-208-790-11	METAL CHIP	2.2K 0.50% 1/10W
R2659	1-216-025-91	RES-CHIP	100 5% 1/10W	R2728	1-216-025-91	RES-CHIP	100 5% 1/10W
R2661	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R2729	1-216-033-00	RES-CHIP	220 5% 1/10W
R2662	1-216-025-91	RES-CHIP	100 5% 1/10W	R2730	1-216-025-91	RES-CHIP	100 5% 1/10W
R2663	1-216-025-91	RES-CHIP	100 5% 1/10W	R2731	1-208-850-11	METAL CHIP	680K 0.50% 1/10W
R2664	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2732	1-208-782-11	METAL CHIP	1K 0.50% 1/10W
R2665	1-208-782-11	METAL CHIP	1K 0.50% 1/10W	R2733	1-216-025-91	RES-CHIP	100 5% 1/10W
R2666	1-216-033-00	RES-CHIP	220 5% 1/10W	R2734	1-216-025-91	RES-CHIP	100 5% 1/10W
R2667	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2735	1-216-025-91	RES-CHIP	100 5% 1/10W
R2668	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2736	1-216-025-91	RES-CHIP	100 5% 1/10W
R2669	1-208-782-11	METAL CHIP	1K 0.50% 1/10W	R2737	1-216-025-91	RES-CHIP	100 5% 1/10W
R2671	1-216-025-91	RES-CHIP	100 5% 1/10W	R2738	1-216-049-91	RES-CHIP	1K 5% 1/10W
R2672	1-216-025-91	RES-CHIP	100 5% 1/10W	R2739	1-216-025-91	RES-CHIP	100 5% 1/10W
R2673	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2740	1-216-025-91	RES-CHIP	100 5% 1/10W
R2674	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2741	1-216-033-00	RES-CHIP	220 5% 1/10W
R2675	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2742	1-216-025-91	RES-CHIP	100 5% 1/10W
R2676	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2743	1-216-025-91	RES-CHIP	100 5% 1/10W
R2677	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2744	1-216-025-91	RES-CHIP	100 5% 1/10W
R2678	1-216-025-91	RES-CHIP	100 5% 1/10W	R2745	1-216-025-91	RES-CHIP	100 5% 1/10W
R2679	1-216-025-91	RES-CHIP	100 5% 1/10W	R2746	1-208-850-11	METAL CHIP	680K 0.50% 1/10W
R2680	1-216-033-00	RES-CHIP	220 5% 1/10W	R2747	1-208-782-11	METAL CHIP	1K 0.50% 1/10W
R2681	1-216-025-91	RES-CHIP	100 5% 1/10W	R2750	1-208-799-11	METAL CHIP	5.1K 0.50% 1/10W
R2682	1-216-025-91	RES-CHIP	100 5% 1/10W	R2751	1-216-025-91	RES-CHIP	100 5% 1/10W
R2683	1-216-073-00	RES-CHIP	10K 5% 1/10W	R2752	1-216-025-91	RES-CHIP	100 5% 1/10W
R2684	1-208-799-11	METAL CHIP	5.1K 0.50% 1/10W	R2753	1-216-025-91	RES-CHIP	100 5% 1/10W
R2685	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R2755	1-216-025-91	RES-CHIP	100 5% 1/10W
R2688	1-216-037-00	RES-CHIP	330 5% 1/10W	R2756	1-216-025-91	RES-CHIP	100 5% 1/10W
R2689	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R2758	1-216-025-91	RES-CHIP	100 5% 1/10W
R2690	1-208-799-11	METAL CHIP	5.1K 0.50% 1/10W	R2759	1-216-033-00	RES-CHIP	220 5% 1/10W
R2691	1-216-295-91	SHORT	0	R2760	1-208-799-11	METAL CHIP	5.1K 0.50% 1/10W
R2692	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R2761	1-216-295-91	SHORT	0
R2693	1-216-295-91	SHORT	0	R2762	1-216-295-91	SHORT	0

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R2763	1-216-025-91	RES-CHIP	100 5% 1/10W	R2837	1-216-049-00	RES-CHIP	1K 5% 1/10W
R2764	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2838	1-216-122-11	RES-CHIP	1.1M 5% 1/10W
R2765	1-216-025-91	RES-CHIP	100 5% 1/10W	R2839	1-216-049-00	RES-CHIP	1K 5% 1/10W
R2766	1-216-049-91	RES-CHIP	1K 5% 1/10W				
R2767	1-216-033-00	RES-CHIP	220 5% 1/10W	R2840	1-216-025-91	RES-CHIP	100 5% 1/10W
R2768	1-216-049-91	RES-CHIP	1K 5% 1/10W	R2841	1-216-073-00	RES-CHIP	10K 5% 1/10W
R2769	1-216-025-91	RES-CHIP	100 5% 1/10W	R2842	1-216-073-00	RES-CHIP	10K 5% 1/10W
R2771	1-216-033-00	RES-CHIP	220 5% 1/10W	R2843	1-216-295-91	SHORT	0
R2773	1-216-025-91	RES-CHIP	100 5% 1/10W	R2844	1-216-073-00	RES-CHIP	10K 5% 1/10W
R2774	1-216-073-00	RES-CHIP	10K 5% 1/10W	R2845	1-216-073-00	RES-CHIP	10K 5% 1/10W
R2775	1-216-025-91	RES-CHIP	100 5% 1/10W	R2846	1-216-049-00	RES-CHIP	1K 5% 1/10W
R2777	1-216-025-91	RES-CHIP	100 5% 1/10W	R2847	1-216-025-91	RES-CHIP	100 5% 1/10W
R2778	1-216-025-91	RES-CHIP	100 5% 1/10W	R2848	1-216-049-00	RES-CHIP	1K 5% 1/10W
R2779	1-216-025-91	RES-CHIP	100 5% 1/10W	R2849	1-216-025-91	RES-CHIP	100 5% 1/10W
R2781	1-208-782-11	METAL CHIP	1K 0.50% 1/10W	R2850	1-216-124-11	RES-CHIP	1.3M 5% 1/10W
R2782	1-216-073-00	RES-CHIP	10K 5% 1/10W	R2851	1-216-124-11	RES-CHIP	1.3M 5% 1/10W
R2783	1-216-295-91	SHORT	0	R2852	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R2784	1-216-025-91	RES-CHIP	100 5% 1/10W	R2853	1-216-073-00	RES-CHIP	10K 5% 1/10W
R2785	1-216-041-00	RES-CHIP	470 5% 1/10W				
R2786	1-216-041-00	RES-CHIP	470 5% 1/10W				
R2787	1-208-782-11	METAL CHIP	1K 0.50% 1/10W				
R2789	1-208-799-11	METAL CHIP	5.1K 0.50% 1/10W				
R2790	1-208-798-11	METAL CHIP	4.7K 0.50% 1/10W				
R2791	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R2792	1-216-033-00	RES-CHIP	220 5% 1/10W				
R2793	1-216-033-00	RES-CHIP	220 5% 1/10W				
R2794	1-216-025-91	RES-CHIP	100 5% 1/10W				
R2796	1-216-049-91	RES-CHIP	1K 5% 1/10W				
R2797	1-216-065-91	RES-CHIP	4.7K 5% 1/10W				
R2799	1-208-810-11	METAL CHIP	15K 0.50% 1/10W				
R2800	1-216-065-91	RES-CHIP	4.7K 5% 1/10W				
R2803	1-208-799-11	METAL CHIP	5.1K 0.50% 1/10W				
R2804	1-216-295-91	SHORT	0				
R2805	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R2806	1-216-025-91	RES-CHIP	100 5% 1/10W				
R2807	1-216-295-91	SHORT	0				
R2808	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R2809	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R2810	1-216-025-91	RES-CHIP	100 5% 1/10W				
R2811	1-216-025-91	RES-CHIP	100 5% 1/10W				
R2812	1-216-025-91	RES-CHIP	100 5% 1/10W				
R2813	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R2814	1-216-025-91	RES-CHIP	100 5% 1/10W				
R2815	1-216-073-00	RES-CHIP	10K 5% 1/10W				
R2818	1-216-025-91	RES-CHIP	100 5% 1/10W				
R2821	1-216-025-91	RES-CHIP	100 5% 1/10W				
R2823	1-216-033-00	RES-CHIP	220 5% 1/10W				
R2824	1-216-033-00	RES-CHIP	220 5% 1/10W				
R2825	1-216-033-00	RES-CHIP	220 5% 1/10W				
R2826	1-216-033-00	RES-CHIP	220 5% 1/10W				
R2827	1-216-033-00	RES-CHIP	220 5% 1/10W				
R2831	1-216-025-91	RES-CHIP	100 5% 1/10W				
R2832	1-216-025-91	RES-CHIP	100 5% 1/10W				
R2834	1-216-025-91	RES-CHIP	100 5% 1/10W				
R2835	1-216-025-91	RES-CHIP	100 5% 1/10W				
R2836	1-216-118-00	RES-CHIP	750K 5% 1/10W				

<CRYSTAL>

X2701 1-767-925-21 VIBRATOR, CRYSTAL (12MHz)

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\* A-1343-788-A DS BOARD, COMPLETE

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<CAPACITOR>

C3501	1-104-664-11	ELECT	47μF	20%	25V
C3502	1-104-664-11	ELECT	47μF	20%	25V
C3503	1-104-664-11	ELECT	47μF	20%	25V
C3504	1-104-664-11	ELECT	47μF	20%	25V
C3505	1-104-664-11	ELECT	47μF	20%	25V

C3506	1-163-275-11	CERAMIC CHIP	0.001μF	5%	50V
C3507	1-126-964-11	ELECT	10μF	20%	50V
C3508	1-107-714-11	ELECT	10μF	20%	16V
C3509	1-137-371-11	MYLAR	0.015μF	5%	50V
C3510	1-163-038-91	CERAMIC CHIP	0.1μF		25V

C3511	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C3512	1-104-664-11	ELECT	47μF	20%	25V
C3513	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C3514	1-163-038-91	CERAMIC CHIP	0.1μF		25V
C3515	1-104-664-11	ELECT	47μF	20%	25V

C3517	1-164-182-11	CERAMIC CHIP	0.0033μF	10%	50V
C3519	1-104-664-11	ELECT	47μF	20%	25V
C3520	1-137-374-11	MYLAR	0.047μF	5%	50V
C3523	1-163-227-11	CERAMIC CHIP	10pF	0.5pF	50V
C3525	1-104-664-11	ELECT	47μF	20%	25V

C3526	1-104-664-11	ELECT	47μF	20%	25V
C3527	1-126-933-11	ELECT	100μF	20%	16V
C3528	1-107-714-11	ELECT	10μF	20%	16V

<CONNECTOR>

CN3501 \* 1-691-632-21 CONNECTOR, BOARD TO BOARD 15P

KP-48PS1/53PS1/61PS1  
48PS1K/53PS1K/61PS1K



RM-892

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
		<DIODE>				4-382-854-11 SCREW (M3X10), P, SW (+) (D5107, D5108, IC5103, Q5104, Q5705)	
D3501	8-719-158-15	DIODE RD5.6S-B		*4-393-506-01	RETAINER, TR		
D3502	8-719-914-44	DIODE DAP202K		7-682-952-09	SCREW +PSW 3X16 (IC5501, IC5502)		
D3503	8-719-158-15	DIODE RD5.6S-B					
		<IC>				<CAPACITOR>	
IC3501	8-759-011-64	IC MC74HC4052F		C5001	1-104-664-11	ELECT 47μF 20% 16V	
IC3502	8-759-251-31	IC CA0007AM		C5002	1-126-963-11	ELECT 4.7μF 20% 50V	
IC3503	8-759-251-31	IC CA0007AM		C5011	1-126-934-11	ELECT 220μF 20% 16V	
IC3504	8-759-251-31	IC CA0007AM		C5020	1-126-961-11	ELECT 2.2μF 20% 50V	
IC3505	8-759-711-28	IC NJM2058D		C5102	1-102-973-00	CERAMIC 100pF 5% 50V	
IC3506	8-759-100-96	IC μPC4558G2		C5103	1-126-960-11	ELECT 1μF 20% 50V	
		<RESISTOR>		C5104	1-137-415-11	MYLAR 0.0068μF 10% 100V	
R3501	1-216-073-00	RES-CHIP 10K 5% 1/10W		C5105	1-102-973-00	CERAMIC 100pF 5% 50V	
R3502	1-216-093-91	RES-CHIP 68K 5% 1/10W		C5112	1-162-117-00	CERAMIC 100pF 10% 500V	
R3503	1-216-073-00	RES-CHIP 10K 5% 1/10W		C5113	1-136-207-11	MYLAR 0.047μF 10% 250V	
R3504	1-216-063-91	RES-CHIP 3.9K 5% 1/10W					
R3506	1-216-057-00	RES-CHIP 2.2K 5% 1/10W		C5115	1-124-347-51	ELECT 100μF 20% 160V	
R3507	1-216-689-11	RES-CHIP 39K 5% 1/10W		C5117	1-162-116-00	CERAMIC 680pF 10% 2KV	
R3508	1-216-073-00	RES-CHIP 10K 5% 1/10W		C5118	1-137-391-11	MYLAR 0.0047μF 5% 100V	
R3509	1-216-073-00	RES-CHIP 10K 5% 1/10W		C5119	1-162-116-00	CERAMIC 680pF 10% 2KV	
R3511	1-208-803-11	METAL CHIP 7.5K 0.50% 1/10W		C5120	1-162-116-00	CERAMIC 680pF 10% 2KV	
R3512	1-216-033-00	RES-CHIP 220 5% 1/10W		C5123	1-129-718-00	FILM 0.022μF 5% 630V	
R3513	1-216-033-00	RES-CHIP 220 5% 1/10W		C5127	1-117-643-11	FILM 9100pF 3% 1.2KV	
R3514	1-216-073-00	RES-CHIP 10K 5% 1/10W		C5130	1-115-521-11	FILM 0.82μF 5% 250V	
R3515	1-216-033-00	RES-CHIP 220 5% 1/10W		C5133	1-104-665-11	ELECT 100μF 20% 25V	
R3518	1-216-085-00	RES-CHIP 33K 5% 1/10W		C5135	1-164-161-11	CERAMIC CHIP 0.0022μF 10% 50V	
R3519	1-216-081-00	RES-CHIP 22K 5% 1/10W		C5136	1-164-161-11	CERAMIC CHIP 0.0022μF 10% 50V	
R3520	1-216-081-00	RES-CHIP 22K 5% 1/10W		C5137	1-137-043-11	MYLAR 0.0047μF 10% 400V	
R3521	1-216-103-00	RES-CHIP 180K 5% 1/10W		C5138	1-126-965-11	ELECT 22μF 20% 50V	
R3523	1-216-105-91	RES-CHIP 220K 5% 1/10W		C5140	1-107-652-11	ELECT 10μF 20% 250V	
R3524	1-216-097-91	RES-CHIP 100K 5% 1/10W		C5141	1-136-189-00	MYLAR 0.1μF 10% 250V	
R3526	1-216-039-00	RES-CHIP 390 5% 1/10W		C5142	1-162-117-00	CERAMIC 100pF 10% 500V	
R3529	1-216-091-00	RES-CHIP 56K 5% 1/10W		C5143	1-115-521-11	FILM 0.82μF 5% 250V	
R3530	1-216-081-00	RES-CHIP 22K 5% 1/10W		C5145	1-104-665-11	ELECT 100μF 20% 25V	
R3531	1-216-041-00	RES-CHIP 470 5% 1/10W		C5146	1-107-655-11	ELECT 47μF 20% 250V	
R3532	1-216-037-00	RES-CHIP 330 5% 1/10W		C5147	1-102-228-00	CERAMIC 470pF 10% 500V	
R3533	1-216-075-00	RES-CHIP 12K 5% 1/10W		C5148	1-126-941-11	ELECT 470μF 20% 25V	
R3535	1-216-097-91	RES-CHIP 100K 5% 1/10W		C5149	1-126-941-11	ELECT 470μF 20% 25V	
R3537	1-216-081-00	RES-CHIP 22K 5% 1/10W		C5150	1-164-161-11	CERAMIC CHIP 0.0022μF 10% 50V	
R3538	1-216-073-00	RES-CHIP 10K 5% 1/10W		C5151	1-164-161-11	CERAMIC CHIP 0.0022μF 10% 50V	
R3541	1-216-083-00	RES-CHIP 27K 5% 1/10W		C5152	1-126-972-11	ELECT 1000μF 20% 50V	
*****				C5153	1-126-972-11	ELECT 1000μF 20% 50V	
* A-1346-907-A D BOARD, COMPLETE (KP-48PS1/48PS1K)				C5158	1-124-347-51	ELECT 100μF 20% 160V	
* A-1346-908-A D BOARD, COMPLETE (KP-53PS1/53PS1K)				C5159	1-126-935-11	ELECT 470μF 20% 16V	
* A-1346-909-A D BOARD, COMPLETE (KP-61PS1/61PS1K)				C5160	1-126-935-11	ELECT 470μF 20% 16V	
*****				C5163	1-164-161-11	CERAMIC CHIP 0.0022μF 10% 50V	
1-500-048-11 FERRITE 0μH (Q5104)				C5164	1-164-161-11	CERAMIC CHIP 0.0022μF 10% 50V	
4-363-414-00 SPACER, MICA (Q5103)				C5165	1-126-967-11	ELECT 47μF 20% 50V	
				C5166	1-126-967-11	ELECT 47μF 20% 50V	
				C5167	1-126-967-11	ELECT 47μF 20% 50V	
				C5168	1-126-967-11	ELECT 47μF 20% 50V	
				C5170	1-136-165-00	MYLAR 0.1μF 5% 50V	
				C5171	1-106-387-00	MYLAR 0.068μF 10% 200V	
				C5172	1-136-165-00	MYLAR 0.1μF 5% 50V	
				C5173	1-136-165-00	MYLAR 0.1μF 5% 50V	
				C5174	1-136-165-00	MYLAR 0.1μF 5% 50V	

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C5175	1-126-967-11	ELECT	47μF 20% 50V	C5407	1-130-495-00	MYLAR	0.1μF 5% 50V
C5176	1-126-967-11	ELECT	47μF 20% 50V	C5507	1-102-973-00	CERAMIC	100pF 5% 50V
C5204	1-126-933-11	ELECT	100μF 20% 16V	C5508	1-102-973-00	CERAMIC	100pF 5% 50V
C5205	1-130-495-00	MYLAR	0.1μF 5% 50V	C5509	1-102-973-00	CERAMIC	100pF 5% 50V
C5206	1-126-960-11	ELECT	1μF 20% 50V				
C5207	1-126-965-11	ELECT	22μF 20% 50V	C5510	1-102-973-00	CERAMIC	100pF 5% 50V
C5208	1-163-037-11	CERAMIC CHIP	0.022μF 10% 50V	C5511	1-102-973-00	CERAMIC	100pF 5% 50V
C5209	1-163-275-11	CERAMIC CHIP	0.001μF 5% 50V	C5512	1-102-973-00	CERAMIC	100pF 5% 50V
C5211	1-130-495-00	MYLAR	0.1μF 5% 50V	C5517	1-126-968-11	ELECT	100μF 20% 50V
C5214	1-126-935-11	ELECT	470μF 20% 16V	C5518	1-126-968-11	ELECT	100μF 20% 50V
C5215	1-126-964-11	ELECT	10μF 20% 50V	C5519	1-126-968-11	ELECT	100μF 20% 50V
C5216	1-164-096-11	CERAMIC	0.01μF 50V	C5520	1-126-968-11	ELECT	100μF 20% 50V
C5217	1-164-096-11	CERAMIC	0.01μF 50V	C5521	1-130-495-00	MYLAR	0.1μF 5% 50V
C5218	1-164-096-11	CERAMIC	0.01μF 50V	C5522	1-130-495-00	MYLAR	0.1μF 5% 50V
C5219	1-164-096-11	CERAMIC	0.01μF 50V	C5523	1-126-968-11	ELECT	100μF 20% 50V
C5220	1-164-096-11	CERAMIC	0.01μF 50V	C5524	1-126-968-11	ELECT	100μF 20% 50V
C5221	1-164-096-11	CERAMIC	0.01μF 50V	C5527	1-126-968-11	ELECT	100μF 20% 50V
C5222	1-164-096-11	CERAMIC	0.01μF 50V	C5528	1-126-968-11	ELECT	100μF 20% 50V
C5223	1-126-960-11	ELECT	1μF 20% 50V	C5529	1-137-150-11	MYLAR	0.01μF 5% 50V
C5224	1-126-967-11	ELECT	47μF 20% 50V	C5530	1-137-150-11	MYLAR	0.01μF 5% 50V
C5225	1-163-021-91	CERAMIC CHIP	0.01μF 10% 50V	C5711	1-136-165-00	MYLAR	0.1μF 5% 50V
C5226	1-164-161-11	CERAMIC CHIP	0.0022μF 10% 50V	C5712	1-136-177-00	MYLAR	1μF 5% 50V
C5301	1-104-664-11	ELECT	47μF 20% 25V	C5713	1-104-665-11	ELECT	100μF 20% 25V
C5302	1-104-665-11	ELECT	100μF 20% 25V	C5714	1-130-471-00	MYLAR	0.001μF 5% 50V
C5303	1-126-933-11	ELECT	100μF 20% 16V	C5715	1-137-150-11	MYLAR	0.01μF 5% 50V
C5304	1-163-005-11	CERAMIC CHIP	470pF 10% 50V	C5716	1-104-665-11	ELECT	100μF 20% 25V
C5305	1-137-399-11	MYLAR	0.1μF 5% 100V	C5717	1-126-968-11	ELECT	100μF 20% 50V
C5307	1-164-004-11	CERAMIC CHIP	0.1μF 10% 25V	C5718	1-162-114-00	CERAMIC	0.0047μF 2KV
C5308	1-126-960-11	ELECT	1μF 20% 50V	C5719	1-126-968-11	ELECT	100μF 20% 50V
C5310	1-126-964-11	ELECT	10μF 20% 50V	C5720	1-137-372-11	MYLAR	0.022μF 5% 50V
C5311	1-136-177-00	MYLAR	1μF 5% 50V	C5721	1-104-661-91	ELECT	330μF 20% 16V
C5312	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V	C5722	1-126-934-11	ELECT	220μF 20% 16V
C5313	1-126-933-11	ELECT	100μF 20% 16V	C5727	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V
C5314	1-126-969-11	ELECT	220μF 20% 50V	C5728	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V
C5315	1-126-964-11	ELECT	10μF 20% 50V	C5759	1-126-964-11	ELECT	10μF 20% 50V
C5316	1-137-401-11	MYLAR	0.22μF 10% 100V	C5760	1-164-182-11	CERAMIC CHIP	0.0033μF 10% 50V
C5317	1-104-664-11	ELECT	47μF 20% 16V				
C5318	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V				
C5319	1-126-941-11	ELECT	470μF 20% 25V				
C5320	1-126-972-11	ELECT	1000μF 20% 50V				
C5321	1-163-243-11	CERAMIC CHIP	47pF 5% 50V				
C5323	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V				
C5326	1-126-972-11	ELECT	1000μF 20% 50V				
C5327	1-163-251-11	CERAMIC CHIP	100pF 5% 50V				
C5328	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V				
C5329	1-163-251-11	CERAMIC CHIP	100pF 5% 50V				
C5331	1-126-960-11	ELECT	1μF 20% 50V				
C5332	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V				
C5333	1-164-232-11	CERAMIC CHIP	0.01μF 10% 50V				
C5334	1-126-960-11	ELECT	1μF 20% 50V				
C5401	1-126-967-11	ELECT	47μF 20% 50V				
C5402	1-104-664-11	ELECT	47μF 20% 25V				
C5403	1-102-125-00	CERAMIC	0.0047μF 10% 50V				
C5404	1-102-125-00	CERAMIC	0.0047μF 10% 50V				
C5405	1-102-125-00	CERAMIC	0.0047μF 10% 50V				
C5406	1-104-664-11	ELECT	47μF 20% 25V				

<CONNECTOR>

CN5001 \* 1-564-506-11 PLUG, CONNECTOR 3P

CN5002 \* 1-573-963-11 PIN, CONNECTOR (PC BOARD) 3P

CN5003 \* 1-506-371-00 PIN, CONNECTOR 2P

CN5004 1-695-915-11 TAB (CONTACT)

CN5006 \* 1-564-512-11 PLUG, CONNECTOR 9P

CN5007 \* 1-580-689-11 PIN, CONNECTOR (PC BOARD) 4P

CN5008 \* 1-580-689-11 PIN, CONNECTOR (PC BOARD) 4P

CN5009 \* 1-580-689-11 PIN, CONNECTOR (PC BOARD) 4P

CN5010 \* 1-564-507-11 PLUG, CONNECTOR 4P

CN5011 \* 1-564-507-11 PLUG, CONNECTOR 4P

CN5012 \* 1-564-507-11 PLUG, CONNECTOR 4P

CN5013 \* 1-764-333-11 PLUG, CONNECTOR 10P

CN5014 \* 1-691-135-11 PIN, CONNECTOR (PC BOARD) 4P

CN5015 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P

CN5016 1-900-903-64 CONNECTOR ASSY 20P

CN5017 1-900-903-64 CONNECTOR ASSY 20P

CN5018 \* 1-564-511-11 PLUG, CONNECTOR 8P

CN5019 \* 1-564-507-11 PLUG, CONNECTOR 4P

**KP-48PS1/53PS1/61PS1**  
**48PS1K/53PS1K/61PS1K**



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The components identified by shading and mark  $\triangle$  are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
CN5020	* 1-564-506-11	PLUG, CONNECTOR 3P		IC5105	8-759-701-56	IC NJM78M05FA	
CN5401	* 1-564-506-11	PLUG, CONNECTOR 3P		IC5106	8-759-701-65	IC NJM79M05FA	
				IC5107	8-759-701-59	IC NJM78M09FA	
CN5402	* 1-691-616-21	CONNECTOR, BOARD TO BOARD 15P		IC5201	8-759-085-67	IC LM339NS	
	<DIODE>			IC5301	8-759-251-31	IC CA0007AM	
D5001	8-719-991-33	DIODE 1SS133T-77		IC5302	8-759-192-71	IC STV9379	
D5002	8-719-991-33	DIODE 1SS133T-77		IC5303	8-759-998-98	IC LM358D	
D5006	8-719-991-33	DIODE 1SS133T-77		IC5401	8-759-711-28	IC NJM2058D	
D5008	8-719-991-33	DIODE 1SS133T-77		IC5501	8-749-014-67	IC STK392-020	
D5101	8-719-983-38	DIODE MTZJ-T-77-36B		IC5502	8-749-014-67	IC STK392-020	
				IC5703	8-759-711-28	IC NJM2058D	
D5107	8-719-979-99	DIODE ERD08M-15			<CHIP CONDUCTOR>		
D5108	8-719-052-09	DIODE FMG-36S-LF024-104		JR5301	1-216-295-91	SHORT	0
D5114	8-719-971-20	DIODE ERC38-06		JR5303	1-216-295-91	SHORT	0
D5115	8-719-302-43	DIODE EL1Z					
D5116	8-719-979-85	DIODE EGP20G			<COIL>		
D5117	8-719-302-43	DIODE EL1Z		L5101	1-406-665-11	INDUCTOR	100μH
D5118	8-719-979-85	DIODE EGP20G		L5104	1-412-551-21	INDUCTOR	1.5mH
D5121	8-719-908-03	DIODE GP08D		L5105	1-459-111-00	INDUCTOR	10mH
D5122	8-719-908-03	DIODE GP08D		L5107	1-412-533-21	INDUCTOR	47μH
D5201	8-719-991-33	DIODE 1SS133T-77		L5108	1-412-533-21	INDUCTOR	47μH
D5202	8-719-109-85	DIODE RD5.1ESB2		L5109	1-412-519-11	INDUCTOR	3.3μH
D5203	8-719-923-86	DIODE MTZJ-T-77-15		L5201	1-414-187-11	INDUCTOR	47μH
D5204	8-719-921-63	DIODE MTZJ-7.5B		L5301	1-412-524-11	INDUCTOR	8.2μH
D5205	8-719-991-33	DIODE 1SS133T-77		L5501	1-412-533-21	INDUCTOR	47μH
D5207	8-719-991-33	DIODE 1SS133T-77		L5502	1-412-533-21	INDUCTOR	47μH
D5208	8-719-991-33	DIODE 1SS133T-77		L5503	1-412-533-21	INDUCTOR	47μH
D5301	8-719-923-86	DIODE MTZJ-T-77-15		L5504	1-412-533-21	INDUCTOR	47μH
D5302	8-719-991-33	DIODE 1SS133T-77			<NEON LAMP>		
D5303	8-719-908-03	DIODE GP08D		NL5101	1-517-778-21	LAMP, NEON	
D5304	8-719-908-03	DIODE GP08D		NL5102	1-517-778-21	LAMP, NEON	
				NL5103	1-517-778-21	LAMP, NEON	
D5305	8-719-991-33	DIODE 1SS133T-77		NL5402	1-517-778-21	LAMP, NEON	
D5306	8-719-923-86	DIODE MTZJ-T-77-15			<IC LINK>		
D5307	8-719-923-86	DIODE MTZJ-T-77-15					
D5308	8-719-924-16	DIODE MTZJ-T-77-24		PS5101 $\triangle$	1-533-590-31	LINK, IC (1A/90V AC, 60V DC)	
D5309	8-719-924-16	DIODE MTZJ-T-77-24		PS5501 $\triangle$	1-533-597-31	LINK, IC (5A/90V AC, 60V DC)	
D5401	8-719-110-17	DIODE RD10ESB2		PS5502 $\triangle$	1-533-597-31	LINK, IC (5A/90V AC, 60V DC)	
D5701	8-719-991-33	DIODE 1SS133T-77		PS5503 $\triangle$	1-533-597-31	LINK, IC (5A/90V AC, 60V DC)	
D5704	8-719-991-33	DIODE 1SS133T-77		PS5504 $\triangle$	1-533-597-31	LINK, IC (5A/90V AC, 60V DC)	
D5719	8-719-923-86	DIODE MTZJ-T-77-15					
D5721	8-719-923-86	DIODE MTZJ-T-77-15		PS5539 $\triangle$	1-533-595-21	LINK, IC (3.15A/90V AC, 60V DC)	
D5724	8-719-018-82	DIODE RGP02-20EL-6394		PS5540 $\triangle$	1-533-595-21	LINK, IC (3.15A/90V AC, 60V DC)	
D5726	8-719-991-33	DIODE 1SS133T-77		PS5543 $\triangle$	1-533-595-21	LINK, IC (3.15A/90V AC, 60V DC)	
D5727	8-719-991-33	DIODE 1SS133T-77		PS5544 $\triangle$	1-533-595-21	LINK, IC (3.15A/90V AC, 60V DC)	
D5731	8-719-991-33	DIODE 1SS133T-77		PS5549 $\triangle$	1-533-595-21	LINK, IC (3.15A/90V AC, 60V DC)	
D5732	8-719-991-33	DIODE 1SS133T-77		PS5550 $\triangle$	1-533-595-21	LINK, IC (3.15A/90V AC, 60V DC)	
	<FERRITE BEAD>						
FB5102	1-412-911-11	FERRITE	0μH				
FB5103	1-412-911-11	FERRITE	0μH		<TRANSISTOR>		
	<IC>			Q5006	1-801-806-11	TRANSISTOR DTC144EKA	
IC5103	8-759-701-79	IC NJM7812FA					
IC5104	8-759-929-65	IC LM7912CT					

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
Q5009	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R5158	1-216-349-00	METAL OXIDE 1	5% 1W
Q5102	8-729-119-80	TRANSISTOR 2SC2688-LK		R5159	1-215-908-00	METAL OXIDE 33	5% 3W
Q5104	8-729-051-81	TRANSISTOR 2SC5047-YB					(KP-48PS1/48PS1K)
Q5105	8-729-038-83	TRANSISTOR 2SK2251-01-F19		R5159	1-216-474-11	METAL OXIDE 82	5% 3W
							(KP-53PS1/53PS1K)
Q5106	8-729-119-76	TRANSISTOR 2SA1175-HFE		R5159	1-216-472-00	METAL OXIDE 39	5% 3W
Q5201	8-729-120-28	TRANSISTOR 2SC1623-L5L6					(KP-61PS1/61PS1K)
Q5302	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R5160	1-249-377-11	CARBON 0.47	5% 1/4W
Q5303	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R5161	1-249-377-11	CARBON 0.47	5% 1/4W
Q5401	8-729-422-27	TRANSISTOR 2SD601A-Q		R5162	1-216-393-00	METAL OXIDE 2.2	5% 3W
				R5163	1-216-392-11	METAL OXIDE 1.8	5% 3W
Q5402	8-729-216-22	TRANSISTOR 2SA1162-G		R5164	1-249-393-11	CARBON 10	5% 1/4W
Q5403	1-801-806-11	TRANSISTOR DTC144EKA		R5166	1-215-905-11	METAL OXIDE 10	5% 3W
Q5501	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R5169	1-249-424-11	CARBON 3.9K	5% 1/4W
Q5502	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R5171	1-249-429-11	CARBON 10K	5% 1/4W
Q5503	8-729-119-76	TRANSISTOR 2SA1175-HFE		R5172	1-249-417-11	CARBON 1K	5% 1/4W
Q5504	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R5173	1-215-905-11	METAL OXIDE 10	5% 3W
Q5505	8-729-119-76	TRANSISTOR 2SA1175-HFE		R5174	1-215-905-11	METAL OXIDE 10	5% 3W
Q5506	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R5175	1-215-905-11	METAL OXIDE 10	5% 3W
Q5704	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA		R5201	1-216-059-00	RES-CHIP 2.7K	5% 1/10W
Q5705	8-729-032-61	TRANSISTOR 2SC5022-02		R5202	1-216-049-91	RES-CHIP 1K	5% 1/10W
Q5706	8-729-119-76	TRANSISTOR 2SA1175-HFE		R5203	1-215-879-11	METAL OXIDE 47K	5% 1W
Q5707	8-729-823-81	TRANSISTOR 2SC4632LS-CB7		R5204	1-216-059-00	RES-CHIP 2.7K	5% 1/10W
Q5709	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R5205	1-216-059-00	RES-CHIP 2.7K	5% 1/10W
Q5710	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R5206	1-216-099-00	RES-CHIP 120K	5% 1/10W
Q5711	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R5209	1-208-760-11	METAL CHIP 120	0.50% 1/10W
<RESISTOR>				R5210	1-216-113-00	RES-CHIP 470K	5% 1/10W
R5004	1-216-089-91	RES-CHIP 47K	5% 1/10W	R5211	1-216-081-00	RES-CHIP 22K	5% 1/10W
R5013	1-216-089-91	RES-CHIP 47K	5% 1/10W	R5212	1-216-071-00	RES-CHIP 8.2K	5% 1/10W
R5023	1-216-065-91	RES-CHIP 4.7K	5% 1/10W	R5213	1-216-089-91	RES-CHIP 47K	5% 1/10W
R5048	1-216-041-00	RES-CHIP 470	5% 1/10W	R5214	1-216-071-00	RES-CHIP 8.2K	5% 1/10W
R5101	1-215-926-00	METAL OXIDE 33K	5% 3W	R5215	1-216-089-91	RES-CHIP 47K	5% 1/10W
R5112	1-247-843-11	CARBON 3.3K	5% 1/4W	R5216	1-247-895-91	CARBON 470K	5% 1/4W
R5115	1-216-435-11	METAL OXIDE 2.7K	5% 1W	R5217	1-216-071-00	RES-CHIP 8.2K	5% 1/10W
R5119	1-215-922-11	METAL OXIDE 6.8K	5% 3W	R5218	1-216-049-91	RES-CHIP 1K	5% 1/10W
R5120	1-216-486-00	METAL OXIDE 8.2K	5% 3W	R5219	1-216-075-00	RES-CHIP 12K	5% 1/10W
R5122	1-215-905-11	METAL OXIDE 10	5% 3W	R5220	1-216-105-91	RES-CHIP 220K	5% 1/10W
R5136	1-215-443-00	METAL 8.2K	1% 1/4W	R5221	1-216-061-00	RES-CHIP 3.3K	5% 1/10W
R5138	1-215-457-00	METAL 33K	1% 1/4W	R5222	1-216-105-91	RES-CHIP 220K	5% 1/10W
R5139	1-216-391-11	METAL OXIDE 1.5	5% 3W	R5223	1-216-081-00	RES-CHIP 22K	5% 1/10W
R5140	1-215-449-00	METAL 15K	1% 1/4W	R5224	1-249-405-11	CARBON 100	5% 1/4W
R5141	1-215-911-11	METAL OXIDE 100	5% 3W	R5225	1-208-806-11	METAL CHIP 10K	0.50% 1/10W
R5143	1-247-735-11	CARBON 47	5% 1/2W	R5226	1-216-089-91	RES-CHIP 47K	5% 1/10W
R5146	1-215-910-00	METAL OXIDE 68	5% 3W	R5227	1-260-135-11	CARBON 1M	5% 1/2W
R5147	1-215-910-00	METAL OXIDE 68	5% 3W	R5229	1-216-045-00	RES-CHIP 680	5% 1/10W
R5148	1-249-377-11	CARBON 0.47	5% 1/4W	R5230	1-216-097-91	RES-CHIP 100K	5% 1/10W
R5149	1-247-807-31	CARBON 100	5% 1/4W	R5231	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R5152	1-216-377-11	METAL OXIDE 4.7	5% 2W	R5232	1-216-089-91	RES-CHIP 47K	5% 1/10W
R5153	1-249-379-11	CARBON 0.68	5% 1/4W	R5233	1-247-807-31	CARBON 100	5% 1/4W
R5154	1-260-127-11	CARBON 220K	5% 1/2W	R5234	1-216-049-91	RES-CHIP 1K	5% 1/10W
R5155	1-214-909-00	METAL 68K	1% 1/2W	R5235	1-208-810-11	METAL CHIP 15K	0.50% 1/10W
R5157	1-215-908-00	METAL OXIDE 33	5% 3W	R5236	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
			(KP-48PS1/48PS1K)	R5302	1-216-073-00	RES-CHIP 10K	5% 1/10W
R5157	1-216-474-11	METAL OXIDE 82	5% 3W	R5303	1-216-083-00	RES-CHIP 27K	5% 1/10W
			(KP-53PS1/53PS1K)	R5304	1-216-081-00	RES-CHIP 22K	5% 1/10W
R5157	1-216-472-00	METAL OXIDE 39	5% 3W	R5305	1-216-670-11	METAL CHIP 6.2K	0.50% 1/10W
			(KP-61PS1/61PS1K)				

**KP-48PS1/53PS1/61PS1**  
**48PS1K/53PS1K/61PS1K**




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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R5306	1-216-675-91	METAL CHIP	10K 0.50% 1/10W	R5512	1-249-417-11	CARBON	1K 5% 1/4W
R5307	1-216-089-91	RES-CHIP	47K 5% 1/10W	R5513	1-247-843-11	CARBON	3.3K 5% 1/4W
R5308	1-216-353-00	METAL OXIDE	2.2 5% 1W	R5515	1-247-843-11	CARBON	3.3K 5% 1/4W
R5309	1-216-097-91	RES-CHIP	100K 5% 1/10W	R5517	1-249-417-11	CARBON	1K 5% 1/4W
R5310	1-216-353-00	METAL OXIDE	2.2 5% 1W	R5518	1-249-417-11	CARBON	1K 5% 1/4W
R5311	1-216-073-00	RES-CHIP	10K 5% 1/10W	R5519	1-249-429-11	CARBON	10K 5% 1/4W
R5312	1-216-073-00	RES-CHIP	10K 5% 1/10W	R5520	1-249-429-11	CARBON	10K 5% 1/4W
R5313	1-216-083-00	RES-CHIP	27K 5% 1/10W	R5521	1-214-808-11	METAL	4.7 1% 1/2W
R5314	1-216-073-00	RES-CHIP	10K 5% 1/10W	R5522	1-214-808-11	METAL	4.7 1% 1/2W
R5315	1-215-913-11	METAL OXIDE	220 5% 3W	R5523	1-247-807-31	CARBON	100 5% 1/4W
R5316	1-216-089-91	RES-CHIP	47K 5% 1/10W	R5524	1-249-429-11	CARBON	10K 5% 1/4W
R5317	1-216-049-91	RES-CHIP	1K 5% 1/10W	R5525	1-214-808-11	METAL	4.7 1% 1/2W
R5318	1-216-097-91	RES-CHIP	100K 5% 1/10W	R5526	1-247-807-31	CARBON	100 5% 1/4W
R5319	1-216-085-00	RES-CHIP	33K 5% 1/10W	R5527	1-214-808-11	METAL	4.7 1% 1/2W
R5320	1-249-383-11	CARBON	1.5 5% 1/4W	R5528	1-249-429-11	CARBON	10K 5% 1/4W
R5321	1-216-089-91	RES-CHIP	47K 5% 1/10W	R5529	1-214-808-11	METAL	4.7 1% 1/2W
R5323	1-216-083-00	RES-CHIP	27K 5% 1/10W	R5530	1-214-808-11	METAL	4.7 1% 1/2W
R5325	1-216-670-11	METAL CHIP	6.2K 0.50% 1/10W	R5531	1-249-417-11	CARBON	1K 5% 1/4W
R5326	1-216-675-91	METAL CHIP	10K 0.50% 1/10W	R5532	1-249-417-11	CARBON	1K 5% 1/4W
R5328	1-216-089-91	RES-CHIP	47K 5% 1/10W	R5533	1-214-808-11	METAL	4.7 1% 1/2W
R5329	1-216-025-91	RES-CHIP	100 5% 1/10W	R5534	1-214-808-11	METAL	4.7 1% 1/2W
R5330	1-216-295-91	SHORT	0	R5535	1-214-808-11	METAL	4.7 1% 1/2W
R5331	1-216-073-00	RES-CHIP	10K 5% 1/10W	R5536	1-214-808-11	METAL	4.7 1% 1/2W
R5335	1-216-117-00	RES-CHIP	680K 5% 1/10W	R5537	1-214-808-11	METAL	4.7 1% 1/2W
R5337	1-216-117-00	RES-CHIP	680K 5% 1/10W	R5538	1-214-808-11	METAL	4.7 1% 1/2W
R5338	1-216-295-91	SHORT	0	R5541	1-214-808-11	METAL	4.7 1% 1/2W
R5339	1-247-807-31	CARBON	100 5% 1/4W	R5542	1-214-808-11	METAL	4.7 1% 1/2W
R5340	1-249-377-11	CARBON	0.47 5% 1/4W	R5545	1-214-808-11	METAL	4.7 1% 1/2W
R5341	1-249-377-11	CARBON	0.47 5% 1/4W	R5546	1-214-808-11	METAL	4.7 1% 1/2W
R5344	1-216-117-00	RES-CHIP	680K 5% 1/10W	R5547	1-214-808-11	METAL	4.7 1% 1/2W
R5345	1-216-117-00	RES-CHIP	680K 5% 1/10W	R5548	1-214-808-11	METAL	4.7 1% 1/2W
R5401	1-216-295-91	SHORT	0	R5551	1-214-808-11	METAL	4.7 1% 1/2W
R5405	1-260-087-11	CARBON	100 5% 1/2W	R5552	1-214-808-11	METAL	4.7 1% 1/2W
R5406	1-216-295-91	SHORT	0	R5553	1-214-808-11	METAL	4.7 1% 1/2W
R5408	1-216-295-91	SHORT	0	R5554	1-214-808-11	METAL	4.7 1% 1/2W
R5409	1-216-295-91	SHORT	0	R5555	1-214-808-11	METAL	4.7 1% 1/2W
R5410	1-260-087-11	CARBON	100 5% 1/2W	R5556	1-214-808-11	METAL	4.7 1% 1/2W
R5411	1-216-295-91	SHORT	0	R5557	1-214-808-11	METAL	4.7 1% 1/2W
R5412	1-208-812-11	METAL CHIP	18K 0.50% 1/10W	R5558	1-214-808-11	METAL	4.7 1% 1/2W
R5415	1-216-067-00	RES-CHIP	5.6K 5% 1/10W	R5559	1-214-808-11	METAL	4.7 1% 1/2W
R5416	1-216-295-91	SHORT	0	R5560	1-214-808-11	METAL	4.7 1% 1/2W
R5419	1-216-049-91	RES-CHIP	1K 5% 1/10W	R5561	1-214-808-11	METAL	4.7 1% 1/2W
R5420	1-216-077-91	RES-CHIP	15K 5% 1/10W	R5562	1-214-808-11	METAL	4.7 1% 1/2W
R5421	1-216-089-91	RES-CHIP	47K 5% 1/10W	R5563	1-249-429-11	CARBON	10K 5% 1/4W
R5422	1-216-105-91	RES-CHIP	220K 5% 1/10W	R5564	1-249-429-11	CARBON	10K 5% 1/4W
R5501	1-247-807-31	CARBON	100 5% 1/4W	R5565	1-249-429-11	CARBON	10K 5% 1/4W
R5502	1-247-807-31	CARBON	100 5% 1/4W	R5566	1-249-429-11	CARBON	10K 5% 1/4W
R5503	1-247-807-31	CARBON	100 5% 1/4W	R5567	1-249-429-11	CARBON	10K 5% 1/4W
R5504	1-247-807-31	CARBON	100 5% 1/4W	R5568	1-249-429-11	CARBON	10K 5% 1/4W
R5505	1-247-807-31	CARBON	100 5% 1/4W	R5569	1-249-429-11	CARBON	10K 5% 1/4W
R5506	1-247-807-31	CARBON	100 5% 1/4W	R5570	1-249-429-11	CARBON	10K 5% 1/4W
R5507	1-247-843-11	CARBON	3.3K 5% 1/4W	R5718	1-249-425-11	CARBON	4.7K 5% 1/4W
R5508	1-247-843-11	CARBON	3.3K 5% 1/4W	R5723	1-216-073-00	RES-CHIP	10K 5% 1/10W
R5509	1-247-843-11	CARBON	3.3K 5% 1/4W	R5724	1-247-807-31	CARBON	100 5% 1/4W
R5510	1-247-843-11	CARBON	3.3K 5% 1/4W	R5725	1-216-093-91	RES-CHIP	68K 5% 1/10W
R5511	1-249-417-11	CARBON	1K 5% 1/4W	R5726	1-216-071-00	RES-CHIP	8.2K 5% 1/10W



**G**

The components identified by shading and mark  are critical for safety.  
Replace only with part number specified.

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The components identified by shading  
and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

KP-48PS1/53PS1/61PS1  
48PS1K/53PS1K/61PS1K



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
L6307	1-412-525-31	INDUCTOR	10μH	R6079	1-216-073-00	RES-CHIP	10K 5% 1/10W
L6308	1-412-525-31	INDUCTOR	10μH	R6100	1-260-298-51	CARBON	3.3 5% 1/2W
L6309	1-412-525-31	INDUCTOR	10μH	R6101	1-216-045-00	RES-CHIP	680 5% 1/10W
L6310	1-412-525-31	INDUCTOR	10μH	R6102	1-249-389-11	CARBON	4.7 5% 1/4W
L6311	1-412-525-31	INDUCTOR	10μH	R6103	1-216-009-91	RES-CHIP	22 5% 1/10W
L6314	1-412-525-31	INDUCTOR	10μH	R6104	1-240-205-11	CARBON	22M 5% 1/2W
L6315	1-412-525-31	INDUCTOR	10μH	R6105	1-216-097-91	RES-CHIP	100K 5% 1/10W
<IC LINK>				R6106	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
PS6300	$\Delta$ 1-801-549-21	PROTECTOR, MODULE (4.0A)		R6107	1-216-089-91	RES-CHIP	47K 5% 1/10W
PS6301	$\Delta$ 1-801-549-21	PROTECTOR, MODULE (4.0A)		R6108	1-215-493-00	METAL	1M 1% 1/4W
PS6302	$\Delta$ 1-801-549-21	PROTECTOR, MODULE (4.0A)		R6109	1-216-041-00	RES-CHIP	470 5% 1/10W
PS6303	$\Delta$ 1-801-549-21	PROTECTOR, MODULE (4.0A)		R6300	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
PS6306	$\Delta$ 1-801-550-21	PROTECTOR, MODULE (2.5A)		R6301	1-249-413-11	CARBON	470 5% 1/4W
PS6307	$\Delta$ 1-801-550-21	PROTECTOR, MODULE (2.5A)		R6302	1-216-073-00	RES-CHIP	10K 5% 1/10W
PS6310	$\Delta$ 1-801-550-21	PROTECTOR, MODULE (2.5A)		R6304	1-216-073-00	RES-CHIP	10K 5% 1/10W
PS6311	$\Delta$ 1-801-550-21	PROTECTOR, MODULE (2.5A)		R6305	1-216-073-00	RES-CHIP	10K 5% 1/10W
<TRANSISTOR>				R6306	1-216-041-00	RES-CHIP	470 5% 1/10W
Q6004	8-729-140-93	TRANSISTOR 2SB733-34		R6307	1-216-073-00	RES-CHIP	10K 5% 1/10W
Q6100	8-729-046-40	TRANSISTOR 2SK2663		R6308	1-216-049-00	RES-CHIP	1K 5% 1/10W
Q6102	8-729-023-22	TRANSISTOR 2SD2114K		R6309	1-249-417-11	CARBON	1K 5% 1/4W
Q6300	8-729-023-22	TRANSISTOR 2SD2114K		R6310	1-216-065-00	RES-CHIP	4.7K 5% 1/10W
Q6301	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R6311	1-215-477-00	METAL	220K 1% 1/4W
Q6302	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R		R6312	1-249-417-11	CARBON	1K 5% 1/4W
Q6303	8-729-820-82	TRANSISTOR 2SA1208		R6313	1-216-097-91	RES-CHIP	100K 5% 1/10W
Q6304	8-729-026-39	TRANSISTOR 2SA933AS-QT		R6314	1-216-383-11	METAL OXIDE	0.33 5% 3W
<RESISTOR>				R6316	1-215-477-00	METAL	220K 1% 1/4W
R6000	1-260-131-11	CARBON	470K 5% 1/2W	R6317	1-249-417-11	CARBON	1K 5% 1/4W
R6001	1-260-131-11	CARBON	470K 5% 1/2W	R6318	1-215-453-00	METAL	22K 1% 1/4W
R6002	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R6319	1-215-476-00	METAL	200K 1% 1/4W
R6003	$\Delta$ 1-219-759-91	CARBON	1M 5% 1/2W	R6320	1-216-675-91	METAL CHIP	10K 0.50% 1/10W
R6026	$\Delta$ 1-218-265-21	METAL	8.2M 5% 1W	R6321	1-216-691-11	METAL CHIP	47K 0.50% 1/10W
R6035	$\Delta$ 1-205-998-11	CEMENTED	1 5% 10W	R6322	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R6043	1-216-073-00	RES-CHIP	10K 5% 1/10W	R6323	1-216-041-00	RES-CHIP	470 5% 1/10W
R6049	$\Delta$ 1-205-998-11	CEMENTED	1 5% 10W	R6324	1-216-049-91	RES-CHIP	1K 5% 1/10W
R6052	1-249-417-11	CARBON	1K 5% 1/4W	R6325	1-208-819-11	METAL CHIP	36K 0.50% 1/10W
R6053	1-216-660-11	METAL CHIP	2.4K 0.50% 1/10W	R6326	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W
R6054	1-216-643-11	METAL CHIP	470 0.50% 1/10W	R6327	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R6055	1-216-672-11	METAL CHIP	7.5K 0.50% 1/10W	R6328	1-215-906-11	METAL OXIDE	15 5% 3W
R6056	1-217-625-00	METAL	0.05 10% 2W	R6329	1-216-676-11	METAL CHIP	11K 0.50% 1/10W
R6057	1-215-477-00	METAL	220K 1% 1/4W	R6333	1-216-675-91	METAL CHIP	10K 0.50% 1/10W
R6058	1-215-477-00	METAL	220K 1% 1/4W	R6334	1-216-041-00	RES-CHIP	470 5% 1/10W
R6059	1-215-477-00	METAL	220K 1% 1/4W	R6335	1-216-071-00	RES-CHIP	8.2K 5% 1/10W
R6060	1-219-512-11	CARBON	2.2M 5% 1/2W	R6336	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W
R6061	$\Delta$ 1-220-886-61	FUSIBLE	0.1 10% 1W	<RELAY>			
R6062	1-216-665-11	METAL CHIP	3.9K 0.50% 1/10W	RY6000 $\Delta$ 1-755-352-11 RELAY, AC POWER			
R6065	1-219-512-11	CARBON	2.2M 5% 1/2W	<TRANSFORMER>			
R6067	1-249-397-11	CARBON	22 5% 1/4W	T6001	$\Delta$ 1-424-436-11	TRANSFORMER, LINE FILTER	
R6068	$\Delta$ 1-205-998-11	CEMENTED	1 5% 10W	T6002	$\Delta$ 1-424-436-11	TRANSFORMER, LINE FILTER	
R6069	$\Delta$ 1-205-998-11	CEMENTED	1 5% 10W	T6003	1-431-445-11	TRANSFORMER, CONVERTER (PFT)	
R6072	1-249-417-11	CARBON	1K 5% 1/4W	T6004	$\Delta$ 1-435-443-11	TRANSFORMER, CONVERTER (PIT)	
R6076	1-249-389-11	CARBON	4.7 5% 1/4W	T6005	$\Delta$ 1-435-445-11	TRANSFORMER, CONVERTER (PIT)	
				T6100	$\Delta$ 1-433-844-11	TRANSFORMER, CONVERTER	



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
		<THERMISTOR>					
TH6100	1-803-586-11	THERMISTOR, NTC			* 4-063-858-01	CUSHION (UPPER) (ASSY) (48PS1/48PS1K)	
		<VARISTOR>			* 4-063-865-01	TRAY (53PS1/53PS1K)	
VD6001△	1-803-830-11	VARISTOR (ERZV14D621)			* 4-063-872-01	BOARD, TOP (53PS1/53PS1K)	
*****					* 4-063-873-01	BOARD, BOTTOM (53PS1/53PS1K)	
		MISCELLANEOUS			* 4-065-646-01	CUSHION (UPPER) (ASSY) (61PS1K)	
		*****					
	△ 1-223-925-11	RESISTOR ASSY (HIGH-VOLTAGE) (FOCUS PACK)			* 4-065-647-01	CUSHION (LOWER) (ASSY) (61PS1K)	
	△ 1-452-790-21	NECK ASSY (NA-295)			* 4-065-730-01	TRAY (61PS1K)	
	1-528-864-11	BATTERY, SOLAR			* 4-070-365-01	INDIVIDUAL CARTON (53PS1/53PS1K)	
	1-529-404-11	SPEAKER (5 CM) (EXCEPT 61PS1/61PS1K)			* 4-070-369-01	CUSHION, (UPPER) ASSY (53PS1/53PS1K)	
	1-529-405-11	SPEAKER (13 CM) (EXCEPT 61PS1/61PS1K)			* 4-070-370-01	CUSHION, (LOWER) ASSY (53PS1/53PS1K)	
	1-529-757-11	SPEAKER (2.7 CM) (61PS1/61PS1K)			* 4-070-371-01	CUSHION (LEFT UPPER) (53PS1/53PS1K)	
	1-529-758-11	SPEAKER (8 CM) (61PS1/61PS1K)			* 4-070-372-01	CUSHION (RIGHT UPPER) (53PS1/53PS1K)	
	1-529-759-11	SPEAKER (16 CM) (61PS1/61PS1K)			* 4-070-373-01	CUSHION (LEFT LOWER) (53PS1/53PS1K)	
	1-543-982-11	CORE, FERRITE			* 4-070-374-01	CUSHION (RIGHT LOWER) (53PS1/53PS1K)	
	* 1-555-110-00	CABLE, PIN			4-075-410-11	MANUAL, INSTRUCTION (ENGLISH, GERMAN, ITALIAN, FRENCH, DUTCH, GREEK, TURKISH) (48PS1/53PS1/61PS1)	
	△ 1-765-286-11	CORD, POWER			4-075-410-21	MANUAL, INSTRUCTION (SPANISH, PORTUGUESE, DANISH, NORWEGIAN, SWEDISH, FINNISH) (48PS1/53PS1/61PS1)	
	1-790-082-11	CABLE, RF			4-075-410-31	MANUAL, INSTRUCTION (ENGLISH, CZECH, POLISH, HUNGARIAN, RUSSIAN, BULGARIAN) (48PS1K/53PS1K/61PS1K)	
	△ 8-598-955-12	BLOCK ASSY, HIGH-VOLTAGE			* 4-076-594-01	INDIVIDUAL CARTON (61PS1)	
	△ 8-733-572-15	PICTURE TUBE 07MXC3 (R) (HEATER) (EXCEPT 61PS1/61PS1K)			* 4-076-595-01	TRAY (61PS1)	
	△ 8-733-573-15	PICTURE TUBE 07MXC4 (R) (HEATER) (61PS1/61PS1K)			* 4-076-596-01	BOARD, TOP (61PS1/61PS1K)	
	△ 8-733-575-15	PICTURE TUBE 07MXC3 (R) (HEATER) (EXCEPT 61PS1/61PS1K)			* 4-076-598-01	CUSHION (UPPER) (ASSY) (61PS1)	
	△ 8-733-576-15	PICTURE TUBE 07MXC4 (R) (HEATER) (61PS1/61PS1K)			* 4-076-599-01	CUSHION (LOWER) (ASSY) (61PS1)	
	△ A-1501-273-A	SEAL (G) ASSY, MECHANICAL			* 4-205-342-01	CARTON, INDIVIDUAL (48PS1/48PS1K)	
*****					* 4-205-343-01	CUSHION (LOWER) (ASSY) (48PS1/48PS1K)	
		ACCESSORIES AND PACKING MATERIALS			*****		
		*****				REMOTE COMMANDER	
						*****	
	* 4-029-168-01	BAG, PROTECTION (48PS1/48PS1K)			1-418-572-11	COMMANDER, STANDARD (RM-892)	
	* 4-030-895-01	JOINT					
	* 4-041-423-11	SHEET, PROTECTION (48PS1/48PS1K)					
	* 4-055-672-01	BAG, PROTCTION (53PS1/53PS1K)					
	* 4-055-673-01	SHEET, PROTECTION (53PS1/53PS1K/61PS1/61PS1K)					
	* 4-059-461-01	BAG, PROTECTION (61PS1/61PS1K)					
	* 4-062-159-01	INDIVIDUAL CARTON (61PS1K)					
	* 4-063-855-11	TRAY (48PS1/48PS1K)					
	* 4-063-856-11	BOARD, TOP (48PS1/48PS1K)					
	* 4-063-857-11	BOARD, BOTTOM (48PS1/48PS1K)					